

Version 2.3

Revision Date: 11-21-2024

Date of last issue: 11-21-2024 Date of first issue: 05-19-2021

# **Cover letter for product:**

Trade name	:	KIT COBAS LIAT CT/NG/MG IVD
Product code	:	09449604190

The product is sold as a kit, and contains the following components:

- MMX-2
- Metal Co-factor 1
- MMX-1
- CS3 EB / EB
- WASH BUFFER
- LMP
- LYSIS BUFFER
- Internal Control (IC)

## The following is an overview of the labeling elements of the kit:

## **GHS** label elements

Hazard pictograms

Signal Word	:	Danger
Hazard Statements	:	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
Precautionary Statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse.
		<b>Storage:</b> P405 Store locked up.



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### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

The product was evaluated per International Air Transport Association (IATA) specifications with the following outcome:

UN 1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate solution), 8, III, Marine pollutant



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### **SECTION 1. IDENTIFICATION**

Product name : MMX-2

### Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Methane, 1,1'-sulfinylbis-	67-68-5	>= 5 - < 10
1,2,3-Propanetriol	56-81-5	>= 1 - < 5
Acetic acid, potassium salt (1:1)	127-08-2	>= 1 - < 5
DNA-dependent DNA polymerase	9012-90-2	< 0.1
Actual concentration is withheld as a	trade secret	·

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**



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General advice	: Do not leave the	e victim unattended.

lf inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	The first aid procedure should be established in consultation

# SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	Carbon oxides Sulfur oxides
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

with the doctor responsible for industrial medicine.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages



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			cannot be contained.
			Local authorities should be advised if significant spillages cannot be contained.
Methods and ma containment and		:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
ECTION 7. HANDL	ING AND STO	RA	GE
Advice on protect fire and explosion		:	Normal measures for preventive fire protection.
	n		Normal measures for preventive fire protection. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
fire and explosio	nandling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
fire and explosio Advice on safe h	n nandling afe storage ion on	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Electrical installations / working materials must comply with
fire and explosion Advice on safe h Conditions for sa Further information	n nandling afe storage ion on ns		For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Electrical installations / working materials must comply with the technological safety standards.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

storage stability

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methane, 1,1'-sulfinylbis-	67-68-5	TWA	250 ppm	US WEEL
1,2,3-Propanetriol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)



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Engineering measures	:	No data available
Personal protective equipme Respiratory protection	ent :	
Hand protection Material Break through time Glove thickness	:	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm
Material Break through time Glove thickness	:	In case of full contact: butyl-rubber > 480 min > 0.4 mm
Remarks Eye protection	:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly. Safety glasses
Skin and body protection	:	Protective suit
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: 8.3
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: No data available



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Flammability (solid, gas)	:	Does not sustain combustion.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.059 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.



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	Conditions to avoid	:	No data availabl	e
	Incompatible materials	:	No data availabl	e
	Hazardous decomposit products	ion :	No data availabl	e
SEC	CTION 11. TOXICOLOG	ICAL INFO	RMATION	
	Acute toxicity Not classified due to lac	ck of data.		
	Product:			
	Acute oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method
	Components:			
	Methane, 1,1'-sulfinyll	ois-:		
	Acute oral toxicity	:		and female): 28,300 mg/kg est Guideline 401
	Acute inhalation toxicity	, :	Exposure time: 4 Test atmosphere	
	Acute dermal toxicity	:	LD50 Dermal (Ra GLP: no	at, male and female): 40,000 mg/kg
	1,2,3-Propanetriol:			
	Acute oral toxicity	:	LC50 (Mouse): 1	1,500 mg/kg
	Acute inhalation toxicity	, <u>:</u>	LC50 (Rat, male) Exposure time: 7 Test atmosphere GLP: no Assessment: The short term inhala	h : vapor e component/mixture is minimally toxic after
	Acute dermal toxicity	:	LD50 (Guinea pig GLP: no	g, male and female): 56,750 mg/kg
	Acetic acid, potassiur	n salt (1:1	):	
	Acute oral toxicity	:	, LD50 Oral (Rat):	3,250 mg/kg
	Acute inhalation toxicity	· :	Acute toxicity est Test atmosphere	: dust/mist

Method: Expert judgment



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LC50 (Rat): > 5.6 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute
inhalation toxicity
Remarks: No mortality observed at this dose.

Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Expert judgment

#### Skin corrosion/irritation

Not classified due to lack of data.

### **Components:**

# Methane, 1,1'-sulfinylbis-:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
GLP	:	yes
Remarks	:	Mild skin irritation

# 1,2,3-Propanetriol:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	No skin irritation
GLP	:	no

## Acetic acid, potassium salt (1:1):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

### Serious eye damage/eye irritation

Not classified due to lack of data.

# **Components:**

# Methane, 1,1'-sulfinylbis-:

Species	:	Rabbit
Exposure time	:	24 h
Method	:	OECD Test Guideline 405
GLP	:	No information available.
Remarks	:	Mild eye irritation

### 1,2,3-Propanetriol:

Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	7 d
GLP	:	no



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# Acetic acid, potassium salt (1:1):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

### Components:

#### Methane, 1,1'-sulfinylbis-:

Test Type Species Assessment Method GLP	::	Local lymph node assay (LLNA) Mouse Does not cause skin sensitization. OECD Test Guideline 429 No information available.
Assessment	:	Mild eye irritation, Mild skin irritation

:

### 1,2,3-Propanetriol:

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

#### Germ cell mutagenicity

Not classified due to lack of data.

# Components:

#### Methane, 1,1'-sulfinylbis-:

: Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No information available.
Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: No information available.
Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative GLP: No information available.



sion	Revisio 11-21-2		Date of last issue: 11-21-2024 Date of first issue: 05-19-2021
Genotoxicity in	vivo	Species: F Cell type: Application Dose: 200	: In vivo micronucleus test Rat (male and female) Bone marrow n Route: Intraperitoneal injection , 1000, 5000 mg/kg/d ECD Test Guideline 474
1,2,3-Propane	triol <sup>.</sup>		
Genotoxicity in		Test syste Metabolic Result: ne	Microbial mutagenesis assay (Ames test) m: Salmonella typhimurium activation: with and without metabolic activation gative formation available.
		Test syste Metabolic Method: C Result: ne	In vitro mammalian cell gene mutation test m: Chinese hamster ovary cells activation: with and without metabolic activation ECD Test Guideline 476 gative nformation available.
Carcinogenici Not classified c	<b>ty</b> lue to lack of da	ta.	
Components:			
1,2,3-Propane	triol:	: Rat, male : Oral	and female
Species Application Rou Exposure time GLP Remarks	ute	<ul> <li>2 Years</li> <li>No information</li> <li>No ingrediation</li> <li>equal to 0.</li> </ul>	ation available. ent of this product present at levels greater than 1% is identified as probable, possible or confirm cinogen by IARC.
Application Rou Exposure time GLP	No ingredient c	<ul> <li>2 Years</li> <li>No information</li> <li>No ingredition</li> <li>equal to 0.</li> <li>human can</li> </ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm crinogen by IARC.
Application Roi Exposure time GLP Remarks	No ingredient o identified as pr	<ul> <li>2 Years</li> <li>No information</li> <li>No ingredition</li> <li>equal to 0, human call</li> <li>for this product obable, possibility</li> <li>of this product of this product</li> </ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm cinogen by IARC. present at levels greater than or equal to 0.1% i le or confirmed human carcinogen by IARC. t present at levels greater than or equal to 0.1%
Application Rot Exposure time GLP Remarks	No ingredient of identified as provident on OSHA's list No ingredient of the second se	<ul> <li>2 Years</li> <li>No information</li> <li>No ingrediation</li> <li>equal to 0, human can be this product obable, possibility of this product of regulated confirmed and this product of the product of the</li></ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm cinogen by IARC. present at levels greater than or equal to 0.1% i le or confirmed human carcinogen by IARC. t present at levels greater than or equal to 0.1%
Application Roi Exposure time GLP Remarks IARC OSHA NTP Reproductive	No ingredient of identified as providentified as providentified as provident No component on OSHA's list No ingredient of identified as a b	<ul> <li>2 Years</li> <li>No information</li> <li>No ingrediation</li> <li>equal to 0, human can be a series of this product obtable, possibility of this product of regulated conference of this product the series of this product the series of this product the series of the series</li></ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm crinogen by IARC. present at levels greater than or equal to 0.1% i ble or confirmed human carcinogen by IARC. t present at levels greater than or equal to 0.1% arcinogens. present at levels greater than or equal to 0.1% i
Application Roi Exposure time GLP Remarks IARC OSHA NTP Reproductive	No ingredient of identified as providentified as providentified as provident No component on OSHA's list No ingredient of identified as a list toxicity	<ul> <li>2 Years</li> <li>No information</li> <li>No ingrediation</li> <li>equal to 0, human can be a series of this product obtable, possibility of this product of regulated conference of this product the series of this product the series of this product the series of the series</li></ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm crinogen by IARC. present at levels greater than or equal to 0.1% is ble or confirmed human carcinogen by IARC. t present at levels greater than or equal to 0.1% arcinogens. present at levels greater than or equal to 0.1% is
Application Rot Exposure time GLP Remarks IARC OSHA NTP Reproductive Not classified of	No ingredient of identified as pro- No component on OSHA's list No ingredient of identified as a l toxicity due to lack of dat	<ul> <li>2 Years</li> <li>No information</li> <li>No ingrediation</li> <li>equal to 0, human can be a series of this product obtable, possibility of this product of regulated conference of this product the series of this product the series of this product the series of the series</li></ul>	ent of this product present at levels greater than 1% is identified as probable, possible or confirm crinogen by IARC. present at levels greater than or equal to 0.1% i ble or confirmed human carcinogen by IARC. t present at levels greater than or equal to 0.1% arcinogens. present at levels greater than or equal to 0.1% i



rsion S	Revision 11-21-20		Date of last issue: 11-21-2024 Date of first issue: 05-19-2021
		Fertility: NOAE	ute: Oral 0, 1000 mg/kg bw/day EL: 1,000 mg/kg body weight D Test Guideline 421
Effects on fetal de	velopment :	Application Ro Dose: 200, 100 Duration of Sir Developmenta	
1,2,3-Propanetric	ol:		
Effects on fertility	:	Species: Rat, r Application Ro Dose: 2000 mg	
Effects on fetal de	velopment :	Application Ro Dose: 11.8, 54 Duration of Sir	
STOT-single exp			
Not classified due	to lack of data	1.	
Components:			
DNA-dependent	UNA polymer	The substance	e or mixture is not classified as specific targ , single exposure.
STOT-repeated e	-	ì.	
Components:			
	DNA nolymer	ase:	
DNA-dependent			
DNA-dependent	:	The substance	e or mixture is not classified as specific targ , repeated exposure.
•	:	The substance	
Assessment	:	The substance	
Assessment Repeated dose to	zicity	The substance	



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NOAEL NOAEL Application Route Exposure time Dose Method GLP	<ul> <li>2970 mg/kg</li> <li>2,970 mg/kg</li> <li>Oral</li> <li>87 Weeks</li> <li>990, 2970, 8910 mg/kg</li> <li>OECD Test Guideline 452</li> <li>no</li> </ul>
Species NOAEC Application Route Test atmosphere Exposure time Dose Method GLP	<ul> <li>Rat, male and female</li> <li>2783 mg/l</li> <li>Inhalation</li> <li>vapor</li> <li>13 Weeks</li> <li>0.310, 0.964, 2.783 mg/l</li> <li>OECD Test Guideline 413</li> <li>yes</li> </ul>
Species NOAEL NOAEL Application Route Exposure time Dose Method GLP	<ul> <li>Monkey, male and female</li> <li>&gt; 8910 mg/kg</li> <li>&gt; 8,910 mg/kg</li> <li>Dermal</li> <li>18 Months</li> <li>990, 2970, 8910 mg/kg bw/da</li> <li>OECD Test Guideline 452</li> <li>no</li> </ul>
Repeated dose toxicity - Assessment	: Mild eye irritation, Mild skin irritation
<b>1,2,3-Propanetriol:</b> Species NOAEL NOAEL Application Route Exposure time Number of exposures Dose GLP	<ul> <li>Rat, male and female</li> <li>4580 mg/kg</li> <li>4,580 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>daily</li> <li>4580 - 25,800 mg/kg/day</li> <li>no</li> </ul>
Species Application Route Test atmosphere Exposure time Number of exposures Dose GLP	<ul> <li>Rat, male and female</li> <li>Inhalation</li> <li>dust/mist</li> <li>13 Weeks</li> <li>6 hours/day, 5 days/week</li> <li>33, 165 and 660 mg/m3</li> <li>No information available.</li> </ul>
Species NOAEL NOAEL Application Route Exposure time	<ul> <li>Rat</li> <li>5040 mg/kg</li> <li>5,040 mg/kg</li> <li>Dermal</li> <li>45 Weeks</li> </ul>



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Number of exposures Dose GLP		8 hours/day, 5 days/week 0.5-4.0 ml/kg no
Repeated dose toxicity - Assessment	:	Mild eye irritant, Mild respiratory irritant, No skin irritation

# Aspiration toxicity

Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

**Components:** 

Methane, 1,1'-sulfinylbis-:	
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 25,000 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 24,600 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: No information available.
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 17,000 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms :	EC50 (activated sludge): 10 - 100 mg/l Exposure time: 0.5 h Analytical monitoring: no Method: ISO 8192 GLP: No information available.
Ecotoxicology Assessment	
Toxicity Data on Soil :	Not expected to adsorb on soil.

the environment

Other organisms relevant to : No data available



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<b>1,2,3-Propanetriol:</b> Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l End point: mortality Exposure time: 96 h Test Type: static test GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 1,955 mg/l End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no GLP: no
Toxicity to algae/aquatic plants	:	(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l End point: Growth rate Exposure time: 8 d Test Type: static test GLP: no
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Growth rate Exposure time: 16 h Test Type: static test GLP: No information available.
Ecotoxicology Assessment		
Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
•••		This product has no known ecotoxicological effects. This product has no known ecotoxicological effects.
Acute aquatic toxicity	:	
Acute aquatic toxicity Chronic aquatic toxicity	:	This product has no known ecotoxicological effects. Not expected to adsorb on soil.
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to	::	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment	::	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available
<ul> <li>Acute aquatic toxicity</li> <li>Chronic aquatic toxicity</li> <li>Toxicity Data on Soil</li> <li>Other organisms relevant to the environment</li> <li>Acetic acid, potassium salt</li> </ul>	: : : (1:1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment Acetic acid, potassium salt Toxicity to fish Toxicity to daphnia and other	: : : (1:1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 EC50 (Daphnia magna (Water flea)): 459.5 mg/l Exposure time: 48 h
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment Acetic acid, potassium salt Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	: : : (1:1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 EC50 (Daphnia magna (Water flea)): 459.5 mg/l Exposure time: 48 h



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Ecotoxicology Assessmen	t	
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
Persistence and degradabi	lity	
Components:		
Methane, 1,1'-sulfinylbis-:		
Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 2 mg/l Result: Not readily biodegradable. Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes
1,2,3-Propanetriol:		
Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 24 h GLP: no
Acetic acid, potassium sal	+ (1 - 1	).
Biodegradability	:	
Bioaccumulative potential		
Components:		
Methane, 1,1'-sulfinylbis-:		
Partition coefficient: n- octanol/water	:	log Pow: -1.35 (68 °F / 20 °C) pH: 7 GLP: No information available.
1,2,3-Propanetriol:		
Partition coefficient: n- octanol/water	:	log Pow: -1.75 (77 °F / 25 °C) pH: 7.4 Method: OECD Test Guideline 107 GLP: no



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				the distribution coefficient n-octanol/water, organisms is not expected.	
	Partition coefficient: n- octanol/water	:	Remarks: No da	ta available	
ļ	DNA-dependent DNA	polymera	se:		
	Partition coefficient: n- octanol/water	:	Remarks: No da	ta available	
I	Mobility in soil				
I	No data available				
(	Other adverse effects	S			
<u> </u>	Product:				
	Ozone-Depletion Pote	ntial :	Protection of Stra Substances Remarks: This p manufactured wi	FR Protection of Environment; Part 82 atospheric Ozone - CAA Section 602 Class I roduct neither contains, nor was th a Class I or Class II ODS as defined by the ct Section 602 (40 CFR 82, Subpt. A, App.A +	

# SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b> Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

# **International Regulations**

#### UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

# IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Domestic regulation

# 49 CFR



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Not regulated as a dangerous good

#### Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Methane, 1,1'-sulfinylbis-	,	>= 5 - < 10 %
1,2,3-Propanetriol	56-81-5	>= 1 - < 5 %

### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Potassium hydroxide 1310-58-3 >= 0 - < 0.1 % (K(OH))

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Potassium hydroxide 1310-58-3 >= 0 - < 0.1 % (K(OH))

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### **US State Regulations**

### **Massachusetts Right To Know**

1,2,3-Propanetriol	56-81-5
Sodium azide (Na(N3))	26628-22-8



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#### Pennsylvania Right To Know Water 7732-18-5 67-68-5 Methane, 1,1'-sulfinylbis-1,2,3-Propanetriol 56-81-5 Sodium azide (Na(N3)) 26628-22-8 Potassium hydroxide (K(OH)) 1310-58-3 Maine Chemicals of High Concern Product does not contain any listed chemicals **Vermont Chemicals of High Concern** Product does not contain any listed chemicals Washington Chemicals of High Concern Product does not contain any listed chemicals California Permissible Exposure Limits for Chemical Contaminants 56-81-5 1,2,3-Propanetriol The ingredients of this product are reported in the following inventories: AIIC Not in compliance with the inventory : DSL This product contains the following components that are not on the Canadian DSL nor NDSL. Primer / Oligonucleotide / Probe DNA-dependent DNA polymerase NZIoC On the inventory, or in compliance with the inventory ENCS Not in compliance with the inventory ISHL Not in compliance with the inventory KECI : Not in compliance with the inventory PICCS Not in compliance with the inventory : **IECSC** Not in compliance with the inventory : TCSI Not in compliance with the inventory : TSCA Product contains substance(s) not listed on TSCA inventory. TECI : Not in compliance with the inventory

# **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

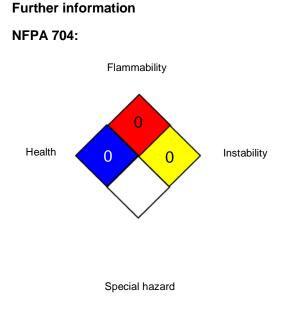


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### **SECTION 16. OTHER INFORMATION**



# HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

# Full text of other abbreviations

OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
OSHA P0 / TWA OSHA Z-1 / TWA US WEEL / TWA	:	8-hour time weighted average 8-hour time weighted average 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of



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Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### **SECTION 1. IDENTIFICATION**

Product name : Metal Co-factor 1

#### Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	: Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medical



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	advice. If sympton	ns persist, call a physician.
In case of skin contac	ct : If on skin,	rinse well with water.
In case of eye contac	Remove c Protect un	ly flush eye(s) with plenty of water. ontact lenses. harmed eye. tion persists, consult a specialist.
If swallowed	Do not giv Never give If sympton	ratory tract clear. e milk or alcoholic beverages. e anything by mouth to an unconscious person. is persist, call a physician. ith with water.
Most important symptiand and effects, both acuted delayed		vn.
Notes to physician		d procedure should be established in consultation octor responsible for industrial medicine.
SECTION 5. FIRE-FIGHT	ING MEASURES	

#### Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Specific hazards during fire No information available. : fighting Hazardous combustion No hazardous combustion products are known : products Further information Standard procedure for chemical fires. 2 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Special protective equipment : Wear self-contained breathing apparatus for firefighting if for fire-fighters necessary.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



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# SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	No data available		
Personal protective equipment Respiratory protection	<ul> <li>No personal respiratory protective equipment normally required.</li> </ul>		
Glove thickness Material Break through time	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm In case of full contact: butyl-rubber > 480 min > 0.4 mm		
Remarks Eye protection Skin and body protection Hygiene measures	<ul> <li>Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.</li> <li>Safety glasses</li> <li>Protective suit</li> <li>Handle in accordance with good industrial hygiene and safety practice.</li> </ul>		



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	6.3
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Does not sustain combustion.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.002 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available



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Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No data available

# SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### Germ cell mutagenicity

Not classified due to lack of data.



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# Carcinogenicity

 Not classified due to lack of data.

 IARC
 No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

 OSHA
 No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

 NTP
 No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

 Reproductive toxicity
 Not classified due to lack of data.

 STOT-single exposure
 Not classified due to lack of data.

# STOT-repeated exposure

Not classified due to lack of data.

#### **Aspiration toxicity**

Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity	
No data available	
Persistence and degradability	
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
Product:	
Ozone-Depletion Potential :	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

•		
Waste from residues	:	Can be disposed as waste water, when in compliance with
		local regulations.

B).



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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **Domestic regulation**

#### 49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Acetic acid64-19-7>= 0 - < 0.1 %</th>The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table117.3:

Acetic acid 64-19-7 >= 0 - < 0.1 %This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# **US State Regulations**

#### Massachusetts Right To Know

Sodium azide (Na(N3))	26628-22-8
Pennsylvania Right To Know	
Water	7732-18-5
Acetic acid, manganese(2+) salt, tetrahydrate	6156-78-1
Sodium azide (Na(N3))	26628-22-8
Acetic acid	64-19-7

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# Washington Chemicals of High Concern

Product does not contain any listed chemicals

### The ingredients of this product are reported in the following inventories:

AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		Magnesium di(acetate)Tetrahydrate
		Acetic acid, manganese(2+) salt, tetrahydrate
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory



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TCSI	: On the inventory	, or in compliance with the inventory
TSCA	: Product contains	substance(s) not listed on TSCA inventory.
TECI	: Not in complianc	e with the inventory

HMIS® IV:

# **TSCA list**

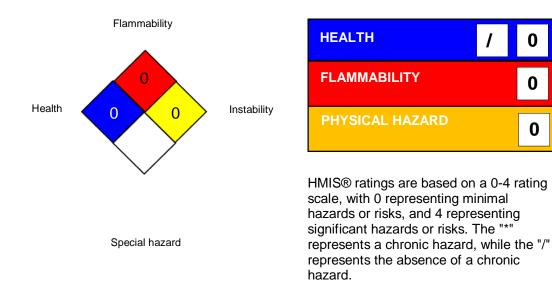
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# **SECTION 16. OTHER INFORMATION**

### **Further information**

### NFPA 704:



### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing



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Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Revision Date** 

: 11-21-2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### **SECTION 1. IDENTIFICATION**

Product name : MMX-1

### Manufacturer or supplier's details

Address	•	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone	:	1-800-428-5074	
Emergency telephone In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or
			Canada) 1-703-527-3887 (International)
Recommended use of the chemical and restrictions on use			

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Methane, 1,1'-sulfinylbis-	67-68-5	>= 5 - < 10
1,2,3-Propanetriol	56-81-5	>= 1 - < 5
Acetic acid, potassium salt (1:1)	127-08-2	>= 1 - < 5
DNA-dependent DNA polymerase	9012-90-2	< 0.1
Actual concentration is withheld as a	trade secret	

Actual concentration is withheld as a trade secret

# **SECTION 4. FIRST AID MEASURES**



# KIT COBAS LIAT CT/NG/MG IVD

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General advice	: Do not leave the	victim unattended.		

lf inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	The first aid procedure should be established in consultation

# SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	Carbon oxides Sulfur oxides
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

with the doctor responsible for industrial medicine.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages



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		cannot be contained.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials containment and clean	-	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
SECTION 7. HANDLING A		AGE
Advice on protection ag	jainst :	Normal measures for preventive fire protection.
Advice on safe handlin	g :	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe sto	rage :	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on	:	No decomposition if stored and applied as directed.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

storage stability

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methane, 1,1'-sulfinylbis-	67-68-5	TWA	250 ppm	US WEEL
1,2,3-Propanetriol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)



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Engineering measures	:	No data available
Personal protective equipme Respiratory protection	ent :	
Hand protection Material Break through time Glove thickness	:	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm
Material Break through time Glove thickness	:	In case of full contact: butyl-rubber > 480 min > 0.4 mm
Remarks Eye protection	:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly. Safety glasses
Skin and body protection	:	Protective suit
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: 8.3
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: does not flash
Evaporation rate	: No data available



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Flammability (solid, gas)	:	Does not sustain combustion.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.044 g/cm3
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.



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	Conditions to avoid	:	No data availabl	e		
	Incompatible materials	:	No data availabl	e		
	Hazardous decomposit products	ion :	No data availabl	vailable		
SEC	CTION 11. TOXICOLOG	ICAL INFO	ORMATION			
	Acute toxicity Not classified due to lac	ck of data.				
	Product:					
	Acute oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method		
	Components:					
	Methane, 1,1'-sulfinyll	ois-:				
	Acute oral toxicity	:		and female): 28,300 mg/kg est Guideline 401		
	Acute inhalation toxicity	, :	Exposure time: 4 Test atmosphere			
	Acute dermal toxicity	:	LD50 Dermal (Ra GLP: no	at, male and female): 40,000 mg/kg		
	1,2,3-Propanetriol:					
	Acute oral toxicity	:	LC50 (Mouse): 1	1,500 mg/kg		
	Acute inhalation toxicity	, <u>:</u>	LC50 (Rat, male) Exposure time: 7 Test atmosphere GLP: no Assessment: The short term inhala	h : vapor e component/mixture is minimally toxic after		
	Acute dermal toxicity	:	LD50 (Guinea pig GLP: no	g, male and female): 56,750 mg/kg		
	Acetic acid, potassium		):			
	Acute oral toxicity	:	LD50 Oral (Rat):	3,250 mg/kg		
	Acute inhalation toxicity	· :	Acute toxicity est Test atmosphere	: dust/mist		

Method: Expert judgment



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LC50 (Rat): > 5.6 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute
inhalation toxicity
Remarks: No mortality observed at this dose.
-

Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Expert judgment

### Skin corrosion/irritation

Not classified due to lack of data.

### **Components:**

### Methane, 1,1'-sulfinylbis-:

Species	: Rabbit
Exposure time	: 4 h
Method	: OECD Test Guideline 404
GLP	: yes
Remarks	: Mild skin irritation

### 1,2,3-Propanetriol:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	No skin irritation
GLP	:	no

### Acetic acid, potassium salt (1:1):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

### Serious eye damage/eye irritation

Not classified due to lack of data.

### **Components:**

### Methane, 1,1'-sulfinylbis-:

Species	:	Rabbit
Exposure time	:	24 h
Method	:	OECD Test Guideline 405
GLP	:	No information available.
Remarks	:	Mild eye irritation

### 1,2,3-Propanetriol:

Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	7 d
GLP	:	no



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### Acetic acid, potassium salt (1:1):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

### Respiratory or skin sensitization

### Skin sensitization

Not classified due to lack of data.

### **Respiratory sensitization**

Not classified due to lack of data.

### **Components:**

### Methane, 1,1'-sulfinylbis-:

Test Type Species Assessment Method GLP	:	Local lymph node assay (LLNA) Mouse Does not cause skin sensitization. OECD Test Guideline 429 No information available.
Assessment	:	Mild eye irritation, Mild skin irritation

:

### 1,2,3-Propanetriol:

Assessment

Mild eye irritant, Mild respiratory irritant, No skin irritation

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

### Methane, 1,1'-sulfinylbis-:

: Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No information available.
Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: No information available.
Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative GLP: No information available.



sion	Revision Date 11-21-2024	e: Date of last issue: 11-21-2024 Date of first issue: 05-19-2021
Genotoxicity in v	Sp Ce Ap Dc Me	est Type: In vivo micronucleus test becies: Rat (male and female) ell type: Bone marrow oplication Route: Intraperitoneal injection bse: 200, 1000, 5000 mg/kg/d ethod: OECD Test Guideline 474 _P: yes
1,2,3-Propanetr	iol.	
Genotoxicity in v	ritro : Te Te Me Re	est Type: Microbial mutagenesis assay (Ames test) est system: Salmonella typhimurium etabolic activation: with and without metabolic activation esult: negative _P: No information available.
	Te Me Me	est Type: In vitro mammalian cell gene mutation test est system: Chinese hamster ovary cells etabolic activation: with and without metabolic activation ethod: OECD Test Guideline 476 esult: negative _P: No information available.
Carcinogenicity Not classified du	/ ie to lack of data.	
Components:		
<b>1,2,3-Propanetr</b> Species Application Rout Exposure time GLP Remarks	: Ra : Or : 2 \ : No : No eq	at, male and female cal Years o information available. o ingredient of this product present at levels greater than ual to 0.1% is identified as probable, possible or confirm man carcinogen by IARC.
	No ingradiant of this	product present at levels greater than or equal to 0.1% i
		e, possible or confirmed human carcinogen by IARC.
OSHA	dentified as probable	e, possible or confirmed human carcinogen by IARC.
OSHA NTP	dentified as probable No component of this on OSHA's list of reg No ingredient of this	e, possible or confirmed human carcinogen by IARC. s product present at levels greater than or equal to 0.1% ulated carcinogens.
OSHA NTP Reproductive to	dentified as probable No component of this on OSHA's list of reg No ingredient of this identified as a known	e, possible or confirmed human carcinogen by IARC. s product present at levels greater than or equal to 0.1% ulated carcinogens. product present at levels greater than or equal to 0.1%
OSHA NTP Reproductive to	dentified as probable No component of this on OSHA's list of reg No ingredient of this identified as a known	e, possible or confirmed human carcinogen by IARC. s product present at levels greater than or equal to 0.1% ulated carcinogens. product present at levels greater than or equal to 0.1% i
OSHA NTP Reproductive to Not classified du	dentified as probable No component of this on OSHA's list of reg No ingredient of this identified as a known <b>oxicity</b> le to lack of data.	e, possible or confirmed human carcinogen by IARC. s product present at levels greater than or equal to 0.1% ulated carcinogens. product present at levels greater than or equal to 0.1% i



rsion	Revision 11-21-20		Date of last issue: 11-21-2024 Date of first issue: 05-19-2021
		Fertility: NOAEL	re: Oral 1000 mg/kg bw/day : 1,000 mg/kg body weight Test Guideline 421
Effects on fetal devel	opment :	Duration of Sing Developmental	
1,2,3-Propanetriol:			
Effects on fertility	:	Test Type: Two- Species: Rat, ma Application Rout Dose: 2000 mg/l Fertility: NOAEL GLP: no	ale and female e: Oral
Effects on fetal devel	opment :	Duration of Sing	
STOT-single exposition Not classified due to			
Components:			
DNA-dependent DN	A polymera	ase:	
Assessment	:	The substance c organ toxicant, s	or mixture is not classified as specific targ single exposure.
STOT-repeated exp			
Not classified due to	IACK OF UALA	•	
	IACK OF UALA		
Not classified due to <u>Components:</u> DNA-dependent DN		ase:	
Not classified due to <b>Components:</b>		<b>ase:</b> The substance c	or mixture is not classified as specific targ epeated exposure.
Not classified due to <u>Components:</u> DNA-dependent DN	A polymera :	<b>ase:</b> The substance c	
Not classified due to <u>Components:</u> DNA-dependent DN Assessment	A polymera :	<b>ase:</b> The substance c	
Not classified due to <u>Components:</u> DNA-dependent DN Assessment Repeated dose toxic	A polymera : city	<b>ase:</b> The substance c	or mixture is not classified as specific targ epeated exposure.



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NOAEL NOAEL Application Route Exposure time Dose Method GLP	<ul> <li>2970 mg/kg</li> <li>2,970 mg/kg</li> <li>Oral</li> <li>87 Weeks</li> <li>990, 2970, 8910 mg/kg</li> <li>OECD Test Guideline 452</li> <li>no</li> </ul>
Species NOAEC Application Route Test atmosphere Exposure time Dose Method GLP	<ul> <li>Rat, male and female</li> <li>2783 mg/l</li> <li>Inhalation</li> <li>vapor</li> <li>13 Weeks</li> <li>0.310, 0.964, 2.783 mg/l</li> <li>OECD Test Guideline 413</li> <li>yes</li> </ul>
Species NOAEL NOAEL Application Route Exposure time Dose Method GLP	<ul> <li>Monkey, male and female</li> <li>&gt; 8910 mg/kg</li> <li>&gt; 8,910 mg/kg</li> <li>Dermal</li> <li>18 Months</li> <li>990, 2970, 8910 mg/kg bw/da</li> <li>OECD Test Guideline 452</li> <li>no</li> </ul>
Repeated dose toxicity - Assessment	: Mild eye irritation, Mild skin irritation
<b>1,2,3-Propanetriol:</b> Species NOAEL NOAEL Application Route Exposure time Number of exposures Dose GLP	<ul> <li>Rat, male and female</li> <li>4580 mg/kg</li> <li>4,580 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>daily</li> <li>4580 - 25,800 mg/kg/day</li> <li>no</li> </ul>
Species Application Route Test atmosphere Exposure time Number of exposures Dose GLP	<ul> <li>Rat, male and female</li> <li>Inhalation</li> <li>dust/mist</li> <li>13 Weeks</li> <li>6 hours/day, 5 days/week</li> <li>33, 165 and 660 mg/m3</li> <li>No information available.</li> </ul>
Species NOAEL NOAEL Application Route Exposure time	: Rat : 5040 mg/kg : 5,040 mg/kg : Dermal : 45 Weeks



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Number of exposures Dose GLP		8 hours/day, 5 days/week 0.5-4.0 ml/kg no
Repeated dose toxicity - Assessment	:	Mild eye irritant, Mild respiratory irritant, No skin irritation

### Aspiration toxicity

Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

**Components:** 

Methane, 1,1'-sulfinylbis-:		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 25,000 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 24,600 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: No information available.
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 17,000 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	EC50 (activated sludge): 10 - 100 mg/l Exposure time: 0.5 h Analytical monitoring: no Method: ISO 8192 GLP: No information available.
Ecotoxicology Assessment		
Toxicity Data on Soil	:	Not expected to adsorb on soil.

the environment

Other organisms relevant to : No data available



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<b>1,2,3-Propanetriol:</b> Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l End point: mortality Exposure time: 96 h Test Type: static test GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 1,955 mg/l End point: mortality Exposure time: 48 h Test Type: static test Analytical monitoring: no GLP: no
Toxicity to algae/aquatic plants	:	(Scenedesmus quadricauda (Green algae)): > 10,000 mg/l End point: Growth rate Exposure time: 8 d Test Type: static test GLP: no
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Growth rate Exposure time: 16 h Test Type: static test GLP: No information available.
Ecotoxicology Assessment		
Ecotoxicology Assessment Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
		This product has no known ecotoxicological effects. This product has no known ecotoxicological effects.
Acute aquatic toxicity	:	
Acute aquatic toxicity Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to	::	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment	::	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available
<ul> <li>Acute aquatic toxicity</li> <li>Chronic aquatic toxicity</li> <li>Toxicity Data on Soil</li> <li>Other organisms relevant to the environment</li> <li>Acetic acid, potassium salt</li> </ul>	: : : ( <b>1</b> :1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment Acetic acid, potassium salt Toxicity to fish Toxicity to daphnia and other	: : : (1:1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 EC50 (Daphnia magna (Water flea)): 459.5 mg/l Exposure time: 48 h
Acute aquatic toxicity Chronic aquatic toxicity Toxicity Data on Soil Other organisms relevant to the environment Acetic acid, potassium salt Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	: : : (1:1	This product has no known ecotoxicological effects. Not expected to adsorb on soil. No data available I): LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 EC50 (Daphnia magna (Water flea)): 459.5 mg/l Exposure time: 48 h



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Ecotoxicology Assessment		
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
Persistence and degradabil	ity	
Components:		
Methane, 1,1'-sulfinylbis-:		
Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 2 mg/l Result: Not readily biodegradable. Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes
1,2,3-Propanetriol:		
Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 226 mg/l Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 24 h GLP: no
Acetic acid, potassium salt	(1:1	):
Biodegradability	:	Result: Readily biodegradable.
Bioaccumulative potential		
Components:		
Methane, 1,1'-sulfinylbis-:		
Partition coefficient: n- octanol/water	:	log Pow: -1.35 (68 °F / 20 °C) pH: 7 GLP: No information available.
1,2,3-Propanetriol:		
Partition coefficient: n- octanol/water	:	log Pow: -1.75 (77 °F / 25 °C) pH: 7.4 Method: OECD Test Guideline 10 GLP: no



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			e to the distribution coefficient n-octanol/water, in organisms is not expected.
Partition coeff octanol/water	icient: n- :	Remarks: No	data available
DNA-depend	ent DNA polymer	ase:	
Partition coeff octanol/water	icient: n- :	Remarks: No	data available
Mobility in so	bil		
No data availa	able		
Other advers	e effects		
Product:			
Ozone-Deplet	ion Potential :	Protection of Substances Remarks: Th manufacture	O CFR Protection of Environment; Part 82 Stratospheric Ozone - CAA Section 602 Class I is product neither contains, nor was d with a Class I or Class II ODS as defined by the ir Act Section 602 (40 CFR 82, Subpt. A, App.A +

### SECTION 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods</b> Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

### UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

# Domestic regulation

49 CFR



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Not regulated as a dangerous good

### Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Methane, 1,1'-sulfinylbis-	,	>= 5 - < 10 %
1,2,3-Propanetriol	56-81-5	>= 1 - < 5 %

### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Potassium hydroxide (K(OH))	1310-58-3	>= 0 - < 0.1 %
Glycine, N,N'-1,2-	60-00-4	>= 0 - < 0.1 %
ethanediylbis[N- (carboxymethyl)-		

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Potassium hydroxide (K(OH))	1310-58-3	>= 0 - < 0.1 %
Glycine, N,N'-1,2-	60-00-4	>= 0 - < 0.1 %
ethanediylbis[N- (carboxymethyl)-		

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act



56-81-5 26628-22-8

56-81-5

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### **US State Regulations**

### Massachusetts Right To Know

1,2,3-Propanetriol Sodium azide (Na(N3))

### Pennsylvania Right To Know

Water	7732-18-5
Methane, 1,1'-sulfinylbis-	67-68-5
1,2,3-Propanetriol	56-81-5
Sodium azide (Na(N3))	26628-22-8
Potassium hydroxide (K(OH))	1310-58-3

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### **California Permissible Exposure Limits for Chemical Contaminants**

AIIC

DSL

# The ingredients of this product are reported in the following inventories: : Not in compliance with the inventory

This product contains the following components that are not 1 on the Canadian DSL nor NDSL.

2'-Deoxyguanosine 5'-triphosphate sodium salt

Uridine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, disodium salt

2'-Deoxyadenosine 5'-(disodium dihydrogen triphosphate) (dATP)

2'-Deoxycytidine 5'-triphosphate disodium salt

2'-Deoxyguanosine 5'-(trihydrogen diphosphate)

Uridine, 2'-deoxy-, 5'-(trihydrogen pyrophosphate)

Primer / Oligonucleotide / Probe

DNA-dependent DNA polymerase

- **NZIoC** On the inventory, or in compliance with the inventory :
- ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory



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KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
TECI	:	Not in compliance with the inventory

### **TSCA** list

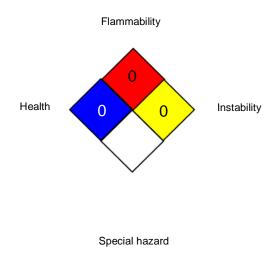
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **SECTION 16. OTHER INFORMATION**

### Further information

NFPA 704:



### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
OSHA P0 / TWA		8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA



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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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: 11-21-2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### **SECTION 1. IDENTIFICATION**

Product name : CS3 - EB / EB

### Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	:	Do not leave the victim unattended.
If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical



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	advice. If symptom	s persist, call a physician.
In case of skin contact	: If on skin, r	inse well with water.
In case of eye contact	Remove co Protect unh	y flush eye(s) with plenty of water. Intact lenses. narmed eye. ion persists, consult a specialist.
If swallowed	Do not give Never give If symptom	ratory tract clear. milk or alcoholic beverages. anything by mouth to an unconscious person. s persist, call a physician. h with water.
Most important symptoms and effects, both acute an delayed	: None know d	n.
Notes to physician		procedure should be established in consultation ctor responsible for industrial medicine.

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	No data available	
Personal protective equipment Respiratory protection	<ul> <li>No personal respiratory protective equipment normally required.</li> </ul>	
Glove thickness Material Break through time	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm In case of full contact: butyl-rubber > 480 min > 0.4 mm	
Remarks Eye protection Skin and body protection Hygiene measures	<ul> <li>Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.</li> <li>Safety glasses</li> <li>Protective suit</li> <li>Handle in accordance with good industrial hygiene and safety practice.</li> </ul>	



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES					
Appearance	:	liquid			
Color	:	colorless			
Odor	:	odorless			
Odor Threshold	:	No data available			
рН	:	8.6 - 9.0 Concentration: 100 %			
Melting point/ range	:	32 °F / 0 °C			
Boiling point/boiling range	:	214 °F / 101 °C			
Flash point	:	does not flash			
Evaporation rate	:	No data available			
Flammability (solid, gas)	:	Does not sustain combustion.			
Flammability (liquids)	:	Does not sustain combustion.			
Self-ignition	:	No data available			
Upper explosion limit / Upper flammability limit	:	No data available			
Lower explosion limit / Lower flammability limit	:	No data available			
Vapor pressure	:	No data available			
Relative vapor density	:	No data available			
Relative density	:	No data available			
Density	:	1.006 g/cm3			
Solubility(ies) Water solubility	:	completely miscible			
Solubility in other solvents	:	No data available			
Partition coefficient: n- octanol/water	:	No data available			





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Autoignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: Not explosive	
Oxidizing properties	: The substance or mixture is not classified as oxidizing.	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	Temperatures greater than recommended storage temperature.
Incompatible materials	:	None.
Hazardous decomposition products	:	No data available

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

Not classified due to lack of data. Not classified due to lack of data.

### Skin corrosion/irritation

Not classified due to lack of data. Not classified due to lack of data.

### Serious eye damage/eye irritation

Not classified due to lack of data. Not classified due to lack of data.

#### Respiratory or skin sensitization

### Skin sensitization

Not classified due to lack of data.

#### Skin sensitization

Not classified due to lack of data.



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### Respiratory sensitization

Not classified due to lack of data.

### **Respiratory sensitization**

Not classified due to lack of data.

### Germ cell mutagenicity

Not classified due to lack of data. Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data. Not classified due to lack of data.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified due to lack of data. Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data. Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data. Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data. Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Product:

### **Ecotoxicology Assessment**

Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to	:	No data available

the environment

### Persistence and degradability

No data available



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 Bioaccumulative potential

 No data available

 Mobility in soil

 No data available

 Other adverse effects

 Product:

 Ozone-Depletion Potential

 :
 Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

 Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

•

Not applicable

### **Domestic regulation**

### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR



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### SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### **US State Regulations**

Massachusetts Right To Know	
Sodium azide (Na(N3))	26628-22-8
Pennsylvania Right To Know	
Water	7732-18-5
Sodium azide (Na(N3))	26628-22-8

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

### Washington Chemicals of High Concern

Product does not contain any listed chemicals

### The ingredients of this product are reported in the following inventories:



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AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
TECI	:	Not in compliance with the inventory

### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **SECTION 16. OTHER INFORMATION**

### **Further information**

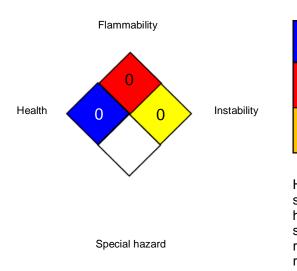
NFPA 704:



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### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance: ELx - Loading rate associated with x% response: EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand



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Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 11-21-2024

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### **SECTION 1. IDENTIFICATION**

Product name : WASH BUFFER

### Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	: Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medical



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	advice. If symptoms	persist, call a physician.
In case of skin contact	: If on skin, rin	se well with water.
In case of eye contact	Remove con Protect unha	
If swallowed	Do not give r Never give a	tory tract clear. nilk or alcoholic beverages. nything by mouth to an unconscious person. persist, call a physician. with water.
Most important symptoms and effects, both acute and delayed	: None known	
Notes to physician		procedure should be established in consultatio or responsible for industrial medicine.

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal. Use neutralizing agents.



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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures : No data available

### Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection		
		In case of contact through splashing:
Material	:	Nitrile rubber
Break through time	:	> 30 min
Glove thickness	:	> 0.11 mm
		In case of full contact:
Material	:	butyl-rubber
Break through time	:	> 480 min
Glove thickness	:	> 0.4 mm
Remarks	:	Wear appropriate protective gloves to prevent skin contact.
		Replace torn or punctured gloves promptly.
Eye protection	:	Safety glasses
Skin and body protection	:	Protective suit



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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	2.4 (68 - 77 °F / 20 - 25 °C)
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable., Does not sustain combustion.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1.002 g/cm3 (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available



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Partition coefficient: n- octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity

Not classified due to lack of data.

### Skin corrosion/irritation

Not classified due to lack of data.

### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

### Skin sensitization

Not classified due to lack of data.

### **Respiratory sensitization**

Not classified due to lack of data.



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### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data.

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity		
Product:		
Ecotoxicology Assessment		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
Persistence and degradabili	ty	
No data available		
Bioaccumulative potential		
No data available		
Mobility in soil		
No data available		
Other adverse effects		
Other adverse effects <u>Product:</u>		



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Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **Domestic regulation**

### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

5

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

### SARA 311/312 Hazards : No SARA Hazards



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**SARA 313** 

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Hydrochloric acid7647-01-0>= 0 - < 0.1 %</th>The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table117.3:

Hydrochloric acid7647-01-0>= 0 - < 0.1 %</th>This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### **US State Regulations**

Massachusetts Right To Kn	ow	
Hydrochloric acid		7647-01-0
Pennsylvania Right To Know	v	
Water		7732-18-5
Maine Chemicals of High Co	oncern	
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3		
Vermont Chemicals of High	Concern	
Benzoic acid, 4-hyd	lroxy-, methyl ester	99-76-3
Washington Chemicals of H	igh Concern	
Benzoic acid, 4-hyd	lroxy-, methyl ester	99-76-3
The ingredients of this prod	uct are reported in the following invento	ries:
AIIC	: On the inventory, or in compliance with	the inventory
DSL	: All components of this product are on t	he Canadian DSL
NZIoC	: On the inventory, or in compliance with	the inventory
ENCS	: On the inventory, or in compliance with	the inventory
ISHL	: On the inventory, or in compliance with	the inventory



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KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
TECI	: On the inventory, or in compliance with the inventory

### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# **Further information** NFPA 704: HMIS® IV: Flammability HEALTH FLAMMABILITY Health Instability

### **SECTION 16. OTHER INFORMATION**

Special hazard

0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*' represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**PHYSICAL HAZARD** 

0

0

0

### Full text of other abbreviations

0

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -



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Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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### **SECTION 1. IDENTIFICATION**

Product name : LMP

# Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	: Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medica



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	advice. If sympto	ms persist, call a physician.
In case of skin cont	act : If on skin	, rinse well with water.
In case of eye conta	Remove Protect u	ely flush eye(s) with plenty of water. contact lenses. nharmed eye. ation persists, consult a specialist.
If swallowed	Do not gi Never giv If sympto	piratory tract clear. ve milk or alcoholic beverages. ve anything by mouth to an unconscious person. ms persist, call a physician. buth with water.
Most important sym and effects, both ac delayed	•	own.
Notes to physician		aid procedure should be established in consultat loctor responsible for industrial medicine.

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	No data available	
Personal protective equipme Respiratory protection	ent :		
Hand protection Material Break through time Glove thickness Material Break through time Glove thickness	:	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm In case of full contact: butyl-rubber > 480 min > 0.4 mm	
Remarks Eye protection Skin and body protection Hygiene measures	:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly. Safety glasses Protective suit Handle in accordance with good industrial hygiene and safety practice.	



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES					
Appearance	:	suspension			
Color	:	brown			
Odor		none			
Odor Threshold		No data available			
Odor Threshold	•	NO GATA AVAIIADIE			
рН	÷	6 - 7			
Melting point/range	:	No data available			
Boiling point/boiling range	:	No data available			
Flash point	:	does not flash			
Evaporation rate	:	No data available			
Flammability (liquids)	:	Does not sustain combustion.			
Self-ignition	:	Not applicable			
Upper explosion limit / Upper flammability limit	:	No data available			
		<b>N I I I I I I I I I I</b>			
Lower explosion limit / Lower flammability limit	•	No data available			
		No data available			
Vapor pressure	•	NU Udla avaliable			
Relative vapor density	:	No data available			
Relative density	:	No data available			
Density	:	> 1 g/cm3			
Solubility(ies)					
Water solubility	•	partly miscible			
Solubility in other solvents	:	No data available			
Partition coefficient: n- octanol/water	:	No data available			
octanol/water					
Autoignition temperature	:	No data available			



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Decomposition temperature : No data available

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	-	
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

### Skin corrosion/irritation

Not classified due to lack of data.

### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data.



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		present at levels greater than or equal to 0.1% is le or confirmed human carcinogen by IARC.				
	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.					
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
<b>ve toxicity</b> d due to lack of data	a.					
e exposure						
	a.					
-	-					
	а.					
•	0					
	RATION					
ilable						
and degradability	1					
ilable						
lative potential						
Mobility in soil No data available						
Sc cheels						
etion Potential :	Protection Substance Remarks:	: 40 CFR Protection of Environment; Part 82 of Stratospheric Ozone - CAA Section 602 Class s This product neither contains, nor was red with a Class I or Class II ODS as defined by t				
	11-21-20 No ingredient of identified as pro- No component of on OSHA's list of No ingredient of identified as a k ve toxicity d due to lack of data exposure d due to lack of data ited exposure d due to lack of data oxicity d due to lack of data	identified as probable, possible No component of this product on OSHA's list of regulated can No ingredient of this product pridentified as a known or antici- ve toxicity d due to lack of data. <b>A ted exposure</b> d due to lack of data. <b>OLOGICAL INFORMATION</b> lable <b>and degradability</b> lable <b>and degradability</b> lable <b>soil</b> lable <b>se effects</b> etion Potential : Regulation Protection of Substances Remarks: T				

### SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues	:	Can be disposed as waste water, when in compliance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.



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Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### Domestic regulation

### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

#### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

1

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



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### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act **US State Regulations** Massachusetts Right To Know No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Water 7732-18-5 Maine Chemicals of High Concern Product does not contain any listed chemicals **Vermont Chemicals of High Concern** Product does not contain any listed chemicals Washington Chemicals of High Concern Product does not contain any listed chemicals The ingredients of this product are reported in the following inventories: AIIC : Not in compliance with the inventory DSL This product contains the following components that are not on the Canadian DSL nor NDSL. Magnetic glass particles (MGP) NZIoC : On the inventory, or in compliance with the inventory ENCS : Not in compliance with the inventory **ISHL** : Not in compliance with the inventory KECI : Not in compliance with the inventory PICCS Not in compliance with the inventory : IECSC Not in compliance with the inventory : TCSI Not in compliance with the inventory : TSCA Product contains substance(s) not listed on TSCA inventory. : TECI Not in compliance with the inventory :

### TSCA list

No substances are subject to a Significant New Use Rule.



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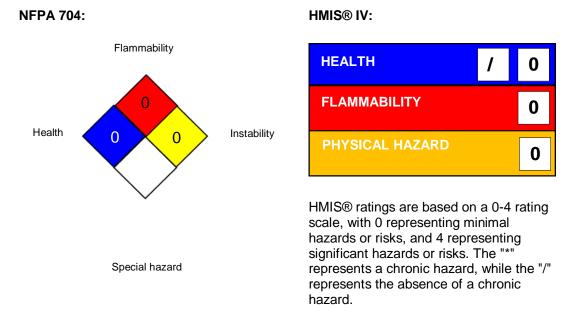
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No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### **Further information**



### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals;



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OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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### **SECTION 1. IDENTIFICATION**

Product name	:	LYSIS BUFFER	
Manufacturer or supplier's of Company name of supplier			
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)
Bacommonded use of the a	har	nical and restrictions on use	

### Recommended use of the chemical and restrictions on use

Recommended u	use
---------------	-----

: Laboratory chemicals Refer to product literature for further details.

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Acute toxicity (Oral)	:	Category 4		
Skin corrosion	:	Category 1C		
Serious eye damage	:	Category 1		
GHS label elements Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.		
Precautionary Statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.		



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### **Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse.

#### Storage:

P405 Store locked up.

### **Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)			
Thiocyanic acid, compd. with	593-84-0	>= 30 - < 50			
guanidine (1:1)					
Poly(oxy-1,2-ethanediyl), .alpha	9002-92-0	>= 5 - < 10			
dodecylomegahydroxy-					
Citric acid monohydrate	5949-29-1	>= 1 - < 5			
Actual concentration is withheld as a trade secret					

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	
In case of skin contact	:	Immediate medical treatment is necessary as untreated



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	difficulty. If on skin	from corrosion of the skin heal slowly and with n, rinse well with water. hes, remove clothes.		
In case of eye contact	tissue da In the ca of water Continue Remove Protect u Keep eye	nounts splashed into eyes can cause irreversible mage and blindness. se of contact with eyes, rinse immediately with plenty and seek medical advice. e rinsing eyes during transport to hospital. contact lenses. Inharmed eye. e wide open while rinsing. tation persists, consult a specialist.		
If swallowed	Keep res Do NOT Do not gi Never giv If sympto	outh with water and drink afterwards plenty of water. piratory tract clear. induce vomiting. ive milk or alcoholic beverages. ve anything by mouth to an unconscious person. oms persist, call a physician. tim immediately to hospital.		
Most important sympto and effects, both acute delayed	e and May be h Causes s Causes s Harmful Causes s	if swallowed. harmful in contact with skin or if inhaled. serious eye damage. severe burns. if swallowed. serious eye damage. severe burns.		
Notes to physician	: Treat syr	nptomatically.		

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Ammonia Carbon oxides Hydrogen cyanide (hydrocyanic acid) In case of fire hazardous decomposition products may be produced such as:



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Further informat	ion :	must not be disc Fire residues an	horus nated fire extinguishing water separately. This charged into drains. d contaminated fire extinguishing water must n accordance with local regulations.
Special protectiv for fire-fighters	ve equipment :	Wear self-contai necessary.	ined breathing apparatus for firefighting if
SECTION 6. ACCIDE	ENTAL RELEAS	E MEASURES	
Personal precau protective equip emergency proc	ment and		otective equipment. ve measures listed in sections 7 and 8.
Environmental p	recautions :	Prevent further I	from entering drains. eakage or spillage if safe to do so. ntaminates rivers and lakes or drains inform prities.
Methods and ma containment and		Soak up with ine	chalk, alkali solution or ammonia. ert absorbent material (e.g. sand, silica gel,

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Further information on	:	See label, package insert or internal guidelines

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.



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storage conditions		
Materials to avoid	:	Do not store near acids.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Thiocyanic acid, compd. with guanidine (1:1)	593-84-0	IOEL	100 microgram per cubic meter	Category 1 (Roche Group Directive K1, Annex 3): OEL = 100 µg/m3

Engineering measures	: N	lo data avail	able
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### Personal protective equipment

Respiratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection Material Break through time Glove thickness Material Break through time Glove thickness	:	In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm In case of full contact: butyl-rubber > 480 min > 0.4 mm
Remarks	:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.

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Eye protection	Tightly	ash bottle with pure water y fitting safety goggles face-shield and protective suit for abnormal processing ems.
Skin and body protectior	Choos	vious clothing se body protection according to the amount and ntration of the dangerous substance at the work place.
Hygiene measures	When	using do not eat or drink. using do not smoke. hands before breaks and at the end of workday.
SECTION 9. PHYSICAL ANI	CHEMICAL P	ROPERTIES
Appearance	: suspe	ension
Color	: No da	ata available
Odor	: No da	ata available
Odor Threshold	: No da	ata available
рН	: 2.3	
Melting point/ range	: No da	ata available
Boiling point/boiling rang	e : No da	ata available
Flash point	: does	not flash
Evaporation rate	: No da	ata available
Self-ignition	: Not a	pplicable
Upper explosion limit / U flammability limit	pper : No da	ata available
Lower explosion limit / L flammability limit	ower : No da	ata available
Vapor pressure	: No da	ata available
Relative vapor density	: No da	ata available
Relative density	: No da	ata available
Density	: 1.084	₽7 g/cm3 (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
LYSIS BUFFER		87



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Solubility(ies) Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Particle characteristics Particle Size Distribution	:	Not applicable

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b> Harmful if swallowed. May be harmful in contact with skin or if inhaled. Harmful if swallowed.					
Product: Acute oral toxicity	: Acute toxicity estimate: 1,396 mg/kg Method: Calculation method				
	Acute toxicity estimate: 1,396 mg/kg Method: Calculation method				
Acute inhalation toxicity	: Acute toxicity estimate: 25.88 mg/l				



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	Test a	ure time: 4 h tmosphere: vapor d: Calculation method
	Expos Test a	toxicity estimate: 25.88 mg/l ure time: 4 h tmosphere: vapor d: Calculation method
Acute dermal toxicity		toxicity estimate: 2,481 mg/kg d: Calculation method
		toxicity estimate: 2,481 mg/kg d: Calculation method
Components:		
Thiocyanic acid, cor	npd. with guanidir	ne (1:1):
Acute oral toxicity	: LD50 Metho	Oral (Rat, female): 593 mg/kg d: OECD Test Guideline 401 oms: Vomiting
Acute inhalation toxici		sment: Corrosive to the respiratory tract., The onent/mixture is moderately toxic after short term tion.
Acute dermal toxicity		sment: The component/mixture is moderately toxic after contact with skin.
<b>Poly(oxy-1,2-ethane</b> Acute oral toxicity		<b>cylomegahydroxy-:</b> Oral (Rat): 8,600 mg/kg
Citric acid monohyd	rata:	
Acute oral toxicity	: LD50	(Mouse): 5,400 mg/kg d: OECD Test Guideline 401
Acute dermal toxicity		(Rat): > 2,000 mg/kg d: OECD Test Guideline 402 /es
Skin corrosion/irrita	tion	
Causes severe burns. Causes severe burns.		
Product:		
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Remarks : Extremely corrosive and destructive to tissue.

### Components:

### Thiocyanic acid, compd. with guanidine (1:1):

Species :	Rabbit
Exposure time :	4 h
Method :	OECD Test Guideline 404
Result :	Corrosive after 1 to 4 hours of exposure
GLP :	yes

Poly(oxy-1,2-ethanediyl), .alpha	-dodecylomegahydroxy-:
----------------------------------	------------------------

Species	:	Rabbit
Result	:	No skin irritation

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### Serious eye damage/eye irritation

Causes serious eye damage. Causes serious eye damage.

### Product:

Remarks

: May cause irreversible eye damage.

### Components:

Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-: Result : Mild eye irritation

### Citric acid monohydrate:

Result	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

### Respiratory or skin sensitization

### Skin sensitization

Not classified due to lack of data.



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### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Components:**

#### Citric acid monohydrate:

Assessment

: Did not cause sensitization on laboratory animals.

### Germ cell mutagenicity

Not classified due to lack of data. Not classified due to lack of data.

### **Components:**

### Thiocyanic acid, compd. with guanidine (1:1):

rine oganie dela, compartituti guantanie (117)					
Genotoxicity in vitro :	Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes				
	Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: no				
	Test Type: gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes				
Citric acid monohydrate:					
Genotoxicity in vitro :	Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471				

Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Method: OECD Test Guideline 471

**Result:** negative



T COBAS	LIAT CT/NG	/MG IVD			
rsion	Revisio 11-21-2	on Date: 2024	Date of last issue: 11-21-2024 Date of first issue: 05-19-2021		
		Test Type: Test syster Method: O Result: pos	Based on data from similar materials Micronucleus test m: Human lymphocytes ECD Test Guideline 487		
Genotoxicity in vivo :		Species: R Cell type: E	Bone marrow ECD Test Guideline 475		
		Species: R Application Method: Re	Test Type: dominant lethal test Species: Rat Application Route: Oral Method: Regulation (EC) No. 440/2008, Annex, B.22 Result: negative		
	ed due to lack of da ed due to lack of da No ingredient of	ta. of this product	present at levels greater than or equal to 0.1% le or confirmed human carcinogen by IARC.		
OSHA			f this product present at levels greater than or equal to 0.1% f regulated carcinogens.		
NTP			present at levels greater than or equal to 0.1% ipated carcinogen by NTP.		
	<b>ve toxicity</b> ed due to lack of da ed due to lack of da				
<u>Componen</u>	<u>ts:</u>				
-	acid, compd. with		-		
Effects on fe	ertility	: Species: R Application Dose: 25 GLP: no	at, female n Route: Oral		
			Ale state from the state shows a self state state was a set of a set		

Effects on fetal development : Species: Rat, female Application Route: Oral Dose: 50, 150, 350 mg/kg bw/day General Toxicity Maternal: NOAEL: 150 mg/kg bw/day Embryo-fetal toxicity.: NOAEL: 350 mg/kg body weight Method: OECD Test Guideline 414

Remarks: No significant adverse effects were reported

Based on data from similar materials



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GLP: yes

### STOT-single exposure

Not classified due to lack of data. Not classified due to lack of data.

### Components:

#### Citric acid monohydrate:

Target Organs Assessment Respiratory system May cause respiratory irritation.

### STOT-repeated exposure

Not classified due to lack of data. Not classified due to lack of data.

### **Repeated dose toxicity**

#### **Components:**

### Thiocyanic acid, compd. with guanidine (1:1):

Species	:	Rat, male and female
NOAEL	:	100 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	daily
Dose	:	25, 100, 300 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	yes

#### Citric acid monohydrate:

Species	:	Rat
NOAEL	:	1,200 mg/kg
Application Route	:	Oral

#### Aspiration toxicity

Not classified due to lack of data. Not classified due to lack of data.

### **Further information**

Product:

Remarks

: No data available



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### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity		
Components:		
Thiocyanic acid, compd. wit	th g	
Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): 89.1 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: no
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 42.4 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: no
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 130 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test GLP: No information available.
Toxicity to microorganisms	:	EC50 (activated sludge): > 185 mg/l Exposure time: 28 d Test Type: static test Method: OECD Test Guideline 302B GLP: yes
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available
Poly(oxy-1,2-ethanediyl), .al	pha	adodecylomegahydroxy-:
	-	EC50 (Daphnia magna (Water flea)): 6.46 mg/l Exposure time: 48 h
Ecotoxicology Assessment Acute aquatic toxicity	:	Harmful to aquatic life.
	•	
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.



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Toxicity Data on Soil	:	Not expect	ed to adsorb on soil.
Other organisms relevan the environment	t to :	No data av	ailable
Citric acid monohydrat	e:		
Toxicity to fish	:	Exposure t Test Type:	
Toxicity to daphnia and o aquatic invertebrates	other :	Exposure t	ohnia magna (Water flea)): 120 mg/l ime: 72 h is given in analogy to the following substances:
		LC50 (Dap Exposure t Test Type:	
Toxicity to algae/aquatic plants	:	Exposure t	ocystis aeruginosa (blue-green algae)): > 80 m ime: 8 d No toxicity at the limit of solubility.
Toxicity to microorganisr	ns :	EC50 (Pse Exposure t	udomonas putida): > 10,000 mg/l ime: 16 h
Ecotoxicology Assess	nent		
Acute aquatic toxicity	:	This produ	ct has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This produ	ct has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expect	ed to adsorb on soil.
Other organisms relevan the environment	t to :	No data av	ailable
Persistence and degrad	lability		
Thiocyanic acid, comp	d. with g	juanidine (1	:1):
Biodegradability	:	Concentra Result: Inh Biodegrada Exposure t	activated sludge, non-adapted ion: 343 mg/l erently biodegradable. ation: 46 % ime: 28 d ECD Test Guideline 302B

GLP: no

Citric acid monohydrate:



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Biodegradability	:	Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: Expected to be ultimately biodegradable
Bioaccumulative potential		
Components:		
Thiocyanic acid, compd. wi	th g	juanidine (1:1):
Partition coefficient: n- octanol/water	:	log Pow: -1.11 (77 °F / 25 °C) pH: > 5.1 Method: Regulation (EC) No. 440/2008, Annex, A.8 GLP: no
Poly(oxy-1,2-ethanediyl), .a	lpha	adodecylomegahydroxy-:
Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 220 Exposure time: 72 h
Partition coefficient: n- octanol/water	:	Remarks: No data available
Citric acid monohydrate:		
Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
Partition coefficient: n- octanol/water	:	log Pow: -1.72 (68 °F / 20 °C) Method: OECD Test Guideline 117 The value is given in analogy to the following substances: Citric acid
Mobility in soil		
No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.



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### Components:

information

Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-: Additional ecological : No data available

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	<ul> <li>The product should not be allowed to enter drains courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with the chemical or used container.</li> <li>Send to a licensed waste management company.</li> </ul>	
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

UN 1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate solution)
8 III 8 no
UN 1760 Corrosive liquid, n.o.s. (Guanidinium thiocyanate solution) 8 III Corrosive 856 852
yes
UN 1760 CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate solution) 8 III 8 F-A, S-B



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Marine pollutant	:	yes
Transport in bulk according t	o.	Annex II of MARPOL 73/78 and the IBC Code
Not applicable		
Domestic regulation		
49 CFR		
UN/ID/NA number	:	UN 1760
Proper shipping name	:	Corrosive liquids, n.o.s.
		(Guanidinium thiocyanate solution)
Class	:	8
Packing group	:	
Labels	:	CORROSIVE
ERG Code	:	154
Marine pollutant	:	no
Special precautions for user		
Remarks	:	No data available

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



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Clean Water Act			
The following Hazardous Sub Table 116.4A:	ostance	es are listed under the U.S. CleanWa	ater Act, Section 311,
Phosphoric acid, s salt (1:2)	odium	7558-79-4	>= 1 - < 5 %
	emicals	s are listed under the U.S. CleanWat	er Act, Section 311, Table
Phosphoric acid, s salt (1:2)	odium	7558-79-4	>= 1 - < 5 %
	n any to	oxic pollutants listed under the U.S.	Clean Water Act Section
This product does not contain	n any p	priority pollutants related to the U.S. (	Clean Water Act
US State Regulations			
Massachusetts Right To Kr	างพ		
Phosphoric acid, s	odium	salt (1:2)	7558-79-4
Pennsylvania Right To Kno	w		
Water	omnd	with guanidine (1:1)	7732-18-5 593-84-0
		.alphadodecylomegahydroxy-	9002-92-0
Phosphoric acid, s	odium	salt (1:2)	7558-79-4
Maine Chemicals of High C			
Product does not c	contain	any listed chemicals	
Vermont Chemicals of High			
		any listed chemicals	
Washington Chemicals of I	-		
		any listed chemicals	
California List of Hazardou			7550 70 4
Phosphoric acid, s			7558-79-4
AllC		re reported in the following invent On the inventory, or in compliance wi	
DSL	: A	Il components of this product are on	the Canadian DSL
NZIOC	: C	On the inventory, or in compliance wi	th the inventory
ENCS	: N	lot in compliance with the inventory	
ISHL	: N	lot in compliance with the inventory	
KECI	: N	lot in compliance with the inventory	
PICCS	: C	On the inventory, or in compliance wi	th the inventory
IECSC	: C	On the inventory, or in compliance wi	th the inventory
TCSI	: C	On the inventory, or in compliance wi	th the inventory



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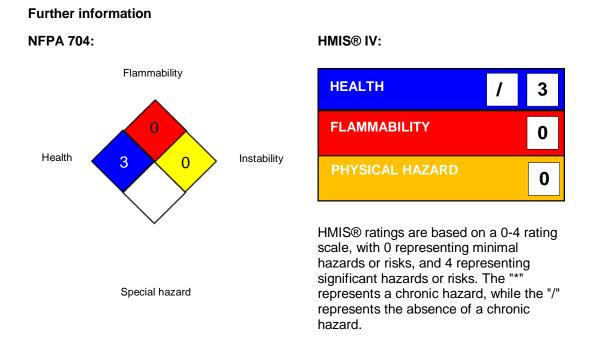
TSCA	: All substances listed as active on the TSCA inventory
TECI	: Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION



### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -



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International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# KIT COBAS LIAT CT/NG/MG IVD

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### **SECTION 1. IDENTIFICATION**

Product name : Internal Control (IC)

#### Manufacturer or supplier's details

Company name of supplier	:	Roche Diagnostics -	
Address	:	9115 Hague Road Indianapolis, IN 46250 USA	
Telephone Emergency telephone	:	1-800-428-5074	
In case of emergencies:	:	CHEMTREC	1-800-424-9300 (U.S. or Canada) 1-703-527-3887 (International)

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Laboratory chemicals
		Refer to product literature for further details.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

### **SECTION 4. FIRST AID MEASURES**

General advice	: Do not leave the victim unattended.
If inhaled	: Move to fresh air. If unconscious, place in recovery position and seek medical



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	advice. If symptom	ns persist, call a physician.
In case of skin contact	: If on skin,	rinse well with water.
In case of eye contact	Remove con Protect un	ly flush eye(s) with plenty of water. ontact lenses. harmed eye. tion persists, consult a specialist.
If swallowed	Do not give Never give If symptom	ratory tract clear. e milk or alcoholic beverages. e anything by mouth to an unconscious person. is persist, call a physician. ith with water.
Most important sympton and effects, both acute delayed		vn.
Notes to physician		d procedure should be established in consultation octor responsible for industrial medicine.

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	No information available.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.



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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	See label, package insert or internal guidelines
Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

: N	No data available	
nt		
	o personal respiratory protective equipment normally equired.	
: Ni : >	a case of contact through splashing: itrile rubber 30 min 0.11 mm	
: bu : >	a case of full contact: utyl-rubber 480 min 0.4 mm	
	/ear appropriate protective gloves to prevent skin contact. eplace torn or punctured gloves promptly.	
: Sa	afety glasses	
: Pi	rotective suit	
	andle in accordance with good industrial hygiene and safety ractice.	
	nt N : N Ir N : N : N : N : N : N : N : N	



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	:	liquid	
Color	:	No data available	
Odor	:	No data available	
Odor Threshold	:	No data available	
рН	:	No data available	
Melting point/range	:	No data available	
Boiling point/boiling range	:	No data available	
Flash point	:	does not flash	
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	Does not sustain combustion.	
Flammability (liquids)	:	Does not sustain combustion.	
Self-ignition	:	Not applicable	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapor pressure	:	No data available	
Relative vapor density	:	No data available	
Relative density	:	No data available	
Density	:	1.006 g/cm3	
Solubility(ies) Water solubility	:	completely miscible	
Solubility in other solvents	:	No data available	
Partition coefficient: n- octanol/water	:	No data available	



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Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No data available

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Serious eye damage/eye irritation

Not classified due to lack of data.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### Germ cell mutagenicity

Not classified due to lack of data.



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### Carcinogenicity

 Not classified due to lack of data.

 IARC
 No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

 OSHA
 No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

 NTP
 No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

 Reproductive toxicity
 Not classified due to lack of data.

 STOT-single exposure
 Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

#### Aspiration toxicity

Not classified due to lack of data.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity	
No data available	
Persistence and degradability	
No data available	
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
Product:	
Ozone-Depletion Potential :	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

### SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Masta from readdurad		Can be dispased as waste water, when is compliance with
Waste from residues	•	Can be disposed as waste water, when in compliance with
		local regulations.

B).



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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **Domestic regulation**

#### 49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### **SECTION 15. REGULATORY INFORMATION**

#### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

•

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 313	:	This material does not contain any che

 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### **US State Regulations**

#### Massachusetts Right To Know

Sodium azide (Na(N3))	26628-22-8
Pennsylvania Right To Know	
Water	7732-18-5
Sodium azide (Na(N3))	26628-22-8

### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

#### The ingredients of this product are reported in the following inventories:

AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
TECI	:	Not in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.



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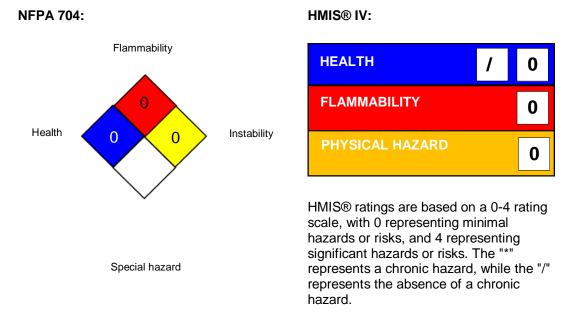
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No substances are subject to TSCA 12(b) export notification requirements.

### SECTION 16. OTHER INFORMATION

#### **Further information**



### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals;



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OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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