

# SAFETY DATA SHEET



## KIT C LIAT SARS COV2 FLU AB RSV

Version 1.0                      Revision Date: 12-16-2022                      Date of last issue: -  
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### SECTION 1. IDENTIFICATION

Product name : KIT C LIAT SARS COV2 FLU AB RSV  
Product code : 09731261190

#### Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics  
-  
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

Restrictions on use : For professional users only.

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### SECTION 2. HAZARDS IDENTIFICATION

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

#### GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
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.



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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.

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

***INTERNAL CONTROL INTERMEDIATE STOCK***

**GHS Classification**

Not a hazardous substance or mixture.

**Components**

No hazardous ingredients

***INTERNAL CONTROL***

**GHS Classification**

Not a hazardous substance or mixture.

**Components**

No hazardous ingredients

***LIAT MAGNETIC PARTICLES***

**GHS Classification**

Not a hazardous substance or mixture.

**Components**

No hazardous ingredients

***LYSIS BUFFER***

**GHS Classification**

Acute toxicity (Oral) : Category 4

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Skin corrosion : Category 1C

Serious eye damage : Category 1

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Thiocyanic acid, compd. with guanidine (1:1)	593-84-0	$\geq 30 - < 50$
Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-	9002-92-0	$\geq 1 - < 5$
Citric acid monohydrate	5949-29-1	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret

### WASH BUFFER

#### GHS Classification

Not a hazardous substance or mixture.

#### Components

No hazardous ingredients

### ELUTION BUFFER

#### GHS Classification

Not a hazardous substance or mixture.

#### Components

No hazardous ingredients

### MASTER MIX-1

#### GHS Classification

Not a hazardous substance or mixture.

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
1,2,3-Propanetriol	56-81-5	$\geq 5 - < 10$
Methane, 1,1'-sulfinylbis-	67-68-5	$\geq 1 - < 5$
DNA-dependent DNA polymerase	9012-90-2	$< 0.1$

Actual concentration is withheld as a trade secret

### LIAT RESPIRATORY MMX-2

#### GHS Classification

Not a hazardous substance or mixture.

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
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Reverse Transcriptase	9068-38-6	< 0.1
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Actual concentration is withheld as a trade secret

**LIAT RESPIRATORY MMX-3**

**GHS Classification**

Not a hazardous substance or mixture.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
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

**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 : 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 : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Protect unharmed eye.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
 Keep respiratory tract clear.  
 Do NOT induce vomiting.  
 Do not give milk or alcoholic beverages.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.  
 Rinse mouth with water.



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- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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**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 : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides  
Oxides of phosphorus  
Sodium oxides  
Ammonia  
Hydrogen cyanide (hydrocyanic acid)  
Sulfur oxides
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
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 : Do not breathe vapors/dust.



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Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Dispose of rinse water in accordance with local and national regulations.  
 To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

- 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 storage conditions : See label, package insert or internal guidelines
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

***INTERNAL CONTROL INTERMEDIATE STOCK***

**Ingredients with workplace control parameters**  
 Contains no substances with occupational exposure limit values.

***INTERNAL CONTROL***

**Ingredients with workplace control parameters**  
 Contains no substances with occupational exposure limit values.

***LIAT MAGNETIC PARTICLES***

**Ingredients with workplace control parameters**  
 Contains no substances with occupational exposure limit values.

***LYSIS BUFFER***

**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/m <sup>3</sup>

***WASH BUFFER***

**Ingredients with workplace control parameters**  
 Contains no substances with occupational exposure limit values.



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**ELUTION BUFFER**

**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**MASTER MIX-1**

**Ingredients with workplace control parameters**

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

**LIAT RESPIRATORY MMX-2**

**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Reverse Transcriptase	9068-38-6	IOEL	0.00006 mg/m <sup>3</sup>	Roche Industrial Hygiene Committee (RIHC)

**LIAT RESPIRATORY MMX-3**

**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DNA-dependent DNA polymerase	9012-90-2	IOEL	0.00006 mg/m <sup>3</sup>	Roche Industrial Hygiene Committee (RIHC)

**Engineering measures** : No data available



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**Personal protective equipment**

- Respiratory protection : In the case of vapor formation use a respirator with an approved filter.
  
- 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 : Eye wash bottle with pure water  
 Tightly fitting safety goggles  
 Wear face-shield and protective suit for abnormal processing problems.
  
- Skin and body protection : Impervious clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
  
- Hygiene measures : When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

***INTERNAL CONTROL INTERMEDIATE STOCK***

- Appearance : liquid
  
- Color : colorless
  
- Odor : slight
  
- Odor Threshold : No data available
- pH : No data available
- Melting point/range : No data available
- Boiling point/boiling range : ca. 212 °F / 100 °C  
 (1,013 hPa)
  
- Flash point : does not flash



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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/cm <sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
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.

### **INTERNAL CONTROL**

Appearance	:	liquid
Color	:	colorless
Odor	:	odorless
Odor Threshold	:	No data available

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- pH : ca. 8.0 (68 °F / 20 °C)
- Melting point/range : No data available
- Boiling point/boiling range : ca. 212 °F / 100 °C (1,013 hPa)
- 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/cm<sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
- 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.

### **LIAT MAGNETIC PARTICLES**

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Appearance : liquid

Color : dark brown

Odor : none

Odor Threshold : No data available

pH : 7.0 (68 °F / 20 °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) : 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 : 1.024 g/cm<sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)

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

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

### **LYSIS BUFFER**

Appearance : liquid  
Color : No data available  
Odor : No data available  
Odor Threshold : No data available  
pH : 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) : 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 : 1.0847 g/cm<sup>3</sup> (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.

### **WASH BUFFER**

- Appearance : liquid
  
- Color : No data available
  
- Odor : No data available
  
- Odor Threshold : No data available
- pH : 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.
- 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

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- Relative vapor density : No data available
- Relative density : No data available
- Density : 1.002 g/cm<sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
- 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.

### **ELUTION BUFFER**

- Appearance : liquid
- Color : colorless
- Odor : odorless
- Odor Threshold : No data available
- pH : 8.8 (68 - 77 °F / 20 - 25 °C)
- Melting point/range : No data available
- Boiling point/boiling range : ca. 212 °F / 100 °C (1,013 hPa)
- Flash point : does not flash
- Evaporation rate : No data available
- Flammability (solid, gas) : Does not sustain combustion.
- Flammability (liquids) : Does not sustain combustion.

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- 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/cm<sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)
- 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.

### **MASTER MIX-1**

- Appearance : liquid
- Color : colorless
- Odor : slight, sulfurous
- Odor Threshold : No data available
- pH : 8.5 (68 - 77 °F / 20 - 25 °C)
- Melting point/range : No data available
- Boiling point/boiling range : No data available

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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 : 1.06 g/cm<sup>3</sup> (68 - 77 °F / 20 - 25 °C, 990 - 1,030 hPa)

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.

### **LIAT RESPIRATORY MMX-2**

Appearance : liquid

Color : colorless



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- Odor : slight
  
- Odor Threshold : No data available
- pH : 6.8 (68 °F / 20 °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) : 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 : 1.003 g/cm<sup>3</sup> (77 °F / 25 °C, 990 - 1,030 hPa)
- 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



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Oxidizing properties                      :    The substance or mixture is not classified as oxidizing.

**LIAT RESPIRATORY MMX-3**

- Appearance                      :    liquid
  
- Color                      :    No data available
  
- Odor                      :    slight
  
- Odor Threshold                      :    No data available
  
- pH                      :    8.0
  
- 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                      :    1.06 g/cm<sup>3</sup> (77 °F / 25 °C, 990 - 1,030 hPa)
  
- 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



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- 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.

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**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.  
No decomposition if stored and applied as directed.
- Incompatible materials : Strong oxidizing agents
- Hazardous decomposition products : No decomposition if stored and applied as directed.

---

**SECTION 11. TOXICOLOGICAL INFORMATION**

***INTERNAL CONTROL INTERMEDIATE STOCK***

- Acute toxicity**  
Not classified based on available information.
- Skin corrosion/irritation**  
Not classified based on available information.
- Serious eye damage/eye irritation**  
Not classified based on available information.
- Respiratory or skin sensitization**
- Skin sensitization**  
Not classified based on available information.
- Respiratory sensitization**  
Not classified based on available information.
- Germ cell mutagenicity**  
Not classified based on available information.
- Carcinogenicity**  
Not classified based on available information.
- 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



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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 based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**INTERNAL CONTROL**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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 based on available information.

**STOT-single exposure**

Not classified based on available information.



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**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

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**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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 based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**LYSIS BUFFER**

**Acute toxicity**

Harmful if swallowed.

**KIT C LIAT SARS COV2 FLU AB RSV**
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Acute oral toxicity : LD50 Oral (Rat, female): 593 mg/kg  
Method: OECD Test Guideline 401  
Symptoms: Vomiting  
GLP: yes

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract., The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

Acute oral toxicity : LD50 Oral (Rat): 1,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**Citric acid monohydrate:**

Acute oral toxicity : LD50 (Mouse): 5,400 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**Skin corrosion/irritation**

Causes severe burns.

**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.-dodecyl-.omega.-hydroxy-:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

**Citric acid monohydrate:**

Species : Rabbit



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Method : OECD Test Guideline 404  
 Result : No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

Species : Rabbit  
 Result : Risk of serious damage to eyes.  
 Method : OECD Test Guideline 405  
 GLP : yes

**Citric acid monohydrate:**

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

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

Test Type : Draize Test  
 Species : Guinea pig  
 Result : Does not cause skin sensitization.  
 GLP : no

**Citric acid monohydrate:**

Assessment : Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

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

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

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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

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Mouse (male)  
Strain: B6C3F1  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Exposure time: 72 h  
Dose: 125 mg/kg  
Result: negative

**Citric acid monohydrate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Species: Rat  
Cell type: Bone marrow  
Method: OECD Test Guideline 475  
Result: negative





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**Carcinogenicity**

Not classified based on available information.

**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 based on available information.

**Components:**

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

Effects on fertility : Species: Rat, female  
Application Route: Oral  
Dose: 25  
GLP: no  
Remarks: No significant adverse effects were reported  
Based on data from similar materials

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  
GLP: yes

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-omega.-hydroxy-:**

Effects on fetal development : Test Type: Two-generation study  
Species: Rat, female  
Application Route: Oral  
Developmental Toxicity: NOAEL: 50 mg/kg bw/day

**STOT-single exposure**

Not classified based on available information.

**Components:**

**Citric acid monohydrate:**

Target Organs : Respiratory system  
Assessment : May cause respiratory irritation.

**STOT-repeated exposure**

Not classified based on available information.



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**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

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

Species : Rat, male  
NOAEL : mg/kg bw/day, 390  
Application Route : Oral  
Exposure time : 22 d

**Citric acid monohydrate:**

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

**Aspiration toxicity**

Not classified based on available information.

**WASH BUFFER**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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.



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**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 based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**ELUTION BUFFER**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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 based on available information.



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**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**MASTER MIX-1**

**Acute toxicity**

Not classified based on available information.

**Components:**

**1,2,3-Propanetriol:**

- Acute oral toxicity : LC50 (Mouse): 11,500 mg/kg
- Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m3  
Exposure time: 7 h  
Test atmosphere: vapor  
GLP: no  
Assessment: The component/mixture is minimally toxic after short term inhalation.
- Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg  
GLP: no

**Methane, 1,1'-sulfinylbis-:**

- Acute oral toxicity : LD50 (Rat, male and female): 28,300 mg/kg  
Method: OECD Test Guideline 401  
GLP: no
- Acute inhalation toxicity : LC0 (Rat, male and female): > 5.33 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
GLP: yes
- Acute dermal toxicity : LD50 Dermal (Rat, male and female): 40,000 mg/kg  
GLP: no

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**1,2,3-Propanetriol:**

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



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

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

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **1,2,3-Propanetriol:**

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

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

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

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

### **Components:**

#### **1,2,3-Propanetriol:**

Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

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

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

Assessment : Mild eye irritation, Mild skin irritation

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **1,2,3-Propanetriol:**





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equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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 based on available information.

**Components:**

**1,2,3-Propanetriol:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 2000 mg/kg bw/day  
Fertility: NOAEL: 2,000 mg/kg body weight  
GLP: no

Effects on fetal development : Species: Rabbit, female  
Application Route: Oral  
Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day  
Duration of Single Treatment: 29 d  
Developmental Toxicity: NOAEL: 1,180 mg/kg bw/day  
GLP: no

**Methane, 1,1'-sulfinylbis-:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 100, 300, 1000 mg/kg bw/day  
Fertility: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

Effects on fetal development : Species: Rat, female  
Application Route: Oral  
Dose: 200, 1000, 5000 milligram per kilogram  
Duration of Single Treatment: 10 d  
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

**STOT-single exposure**

Not classified based on available information.



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**Components:**

**DNA-dependent DNA polymerase:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

Not classified based on available information.

**Components:**

**DNA-dependent DNA polymerase:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Components:**

**1,2,3-Propanetriol:**

Species : Rat, male and female  
 NOAEL : 4580 mg/kg  
 NOAEL : 4,580 mg/kg  
 Application Route : Oral  
 Exposure time : 90 d  
 Number of exposures : daily  
 Dose : 4580 - 25,800 mg/kg/day  
 GLP : no

Species : Rat, male and female  
 Application Route : Inhalation  
 Test atmosphere : dust/mist  
 Exposure time : 13 Weeks  
 Number of exposures : 6 hours/day, 5 days/week  
 Dose : 33, 165 and 660 mg/m3  
 GLP : No information available.

Species : Rat  
 NOAEL : 5040 mg/kg  
 NOAEL : 5,040 mg/kg  
 Application Route : Dermal  
 Exposure time : 45 Weeks  
 Number of exposures : 8 hours/day, 5 days/week  
 Dose : 0.5-4.0 ml/kg  
 GLP : no

Repeated dose toxicity - Assessment : Mild eye irritant, Mild respiratory irritant, No skin irritation

**Methane, 1,1'-sulfinylbis-:**

Species : Monkey, male and female  
 NOAEL : 2970 mg/kg  
 NOAEL : 2,970 mg/kg  
 Application Route : Oral





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Exposure time                      : 87 Weeks  
Dose                                      : 990, 2970, 8910 mg/kg  
Method                                 : OECD Test Guideline 452  
GLP                                        : no

Species                                 : Rat, male and female  
NOAEC                                 : 2783 mg/l  
Application Route                    : Inhalation  
Test atmosphere                     : vapor  
Exposure time                        : 13 Weeks  
Dose                                      : 0.310, 0.964, 2.783 mg/l  
Method                                 : OECD Test Guideline 413  
GLP                                        : yes

Species                                 : Monkey, male and female  
NOAEL                                 : > 8910 mg/kg  
NOAEL                                 : > 8,910 mg/kg  
Application Route                    : Dermal  
Exposure time                        : 18 Months  
Dose                                      : 990, 2970, 8910 mg/kg bw/da  
Method                                 : OECD Test Guideline 452  
GLP                                        : no

Repeated dose toxicity -            : Mild eye irritation, Mild skin irritation  
Assessment

**Aspiration toxicity**

Not classified based on available information.

**LIAT RESPIRATORY MMX-2**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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.



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**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 based on available information.

**STOT-single exposure**  
Not classified based on available information.

**Components:**

**Reverse Transcriptase:**

Assessment                      :    The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**  
Not classified based on available information.

**Components:**

**Reverse Transcriptase:**

Assessment                      :    The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity**  
Not classified based on available information.

**Components:**

**Reverse Transcriptase:**

No data available

**LIAT RESPIRATORY MMX-3**

**Acute toxicity**  
Not classified based on available information.

**Components:**

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

Acute oral toxicity                      :    LD50 Oral (Rat): 3,250 mg/kg

Acute inhalation toxicity                      :    Acute toxicity estimate: > 30 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgment

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



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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 based on available information.

**Components:**

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

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

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:**

**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 based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**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 based on available information.

**STOT-single exposure**

Not classified based on available information.



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**Components:**

**DNA-dependent DNA polymerase:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT-repeated exposure**

Not classified based on available information.

**Components:**

**DNA-dependent DNA polymerase:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

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**SECTION 12. ECOLOGICAL INFORMATION**

***INTERNAL CONTROL INTERMEDIATE STOCK***

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

***INTERNAL CONTROL***

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

***LIAT MAGNETIC PARTICLES***

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**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**
**LYSIS BUFFER**
**Ecotoxicity**
**Components:**
**Thiocyanic acid, compd. with guanidine (1:1):**

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 : No data available

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the environment

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

- Toxicity to fish : LC50 (Salmo salar (Atlantic salmon)): 1.5 mg/l  
End point: mortality  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.46 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.237 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- EbC50 (Desmodesmus subspicatus (green algae)): 1,502 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.144 mg/l  
Exposure time: 21 d  
Method: QSAR
- Toxicity to microorganisms : (Photobacterium phosphoreum): 2.5 mg/l  
Test Type: EC50

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Toxic to aquatic life.  
Remarks: Expert judgment
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.  
Remarks: Expert judgment

**Citric acid monohydrate:**

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 72 h
- LC50 (Daphnia magna (Water flea)): 1,535 mg/l  
Exposure time: 24 h  
Test Type: static test
- Toxicity to algae/aquatic plants : IC50 (Microcystis aeruginosa (blue-green algae)): > 80 mg/l  
Exposure time: 8 d  
Remarks: No toxicity at the limit of solubility.
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16 h

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1.0Revision Date:  
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- 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 degradability****Components:****Thiocyanic acid, compd. with guanidine (1:1):**

- Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 343 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 46 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B  
GLP: no

**Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy-:**

- Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 30 mg/l  
Result: Readily biodegradable.  
Biodegradation: 74 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

**Citric acid monohydrate:**

- 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. with guanidine (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), .alpha.-dodecyl-.omega.-hydroxy-:**

- Partition coefficient: n- : Remarks: No data available



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octanol/water

**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

**Mobility in soil**

No data available

**Other adverse effects**

**WASH BUFFER**

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**ELUTION BUFFER**

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

**MASTER MIX-1**

**Ecotoxicity**

**Components:**

**1,2,3-Propanetriol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l  
End point: mortality



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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**

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

**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



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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.

Other organisms relevant to the environment : No data available

**DNA-dependent DNA polymerase:**

**Ecotoxicology Assessment**

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

**Persistence and degradability**

**Components:**

**1,2,3-Propanetriol:**

Biodegradability : aerobic  
 Inoculum: activated sludge  
 Concentration: 226 mg/l  
 Result: Readily biodegradable.  
 Biodegradation: 94 %  
 Exposure time: 24 h  
 GLP: no

**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 301D  
 GLP: yes

**Bioaccumulative potential**

**Components:**

**1,2,3-Propanetriol:**

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)



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octanol/water                      pH: 7.4  
Method: OECD Test Guideline 107  
GLP: no

**Methane, 1,1'-sulfinylbis-:**

Partition coefficient: n-octanol/water                      : log Pow: -1.35 (68 °F / 20 °C)  
pH: 7  
GLP: No information available.

**DNA-dependent DNA polymerase:**

Partition coefficient: n-octanol/water                      : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects**

**LIAT RESPIRATORY MMX-2**

**Ecotoxicity**

**Components:**

**Reverse Transcriptase:**

**Ecotoxicology Assessment**

Toxicity Data on Soil                      : Not expected to adsorb on soil.

Other organisms relevant to the environment                      : No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

**Components:**

**Reverse Transcriptase:**

Partition coefficient: n-octanol/water                      : Remarks: No data available

**Mobility in soil**

No data available

**Other adverse effects**

**LIAT RESPIRATORY MMX-3**



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**Ecotoxicity**

**Components:**

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

Toxicity to fish                                      : LC50 (Brachydanio rerio (zebrafish)): 496.35 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other                      : EC50 (Daphnia magna (Water flea)): 459.5 mg/l  
aquatic invertebrates                              : Exposure time: 48 h  
Method: OECD Test Guideline 202

**Ecotoxicology Assessment**

Toxicity Data on Soil                              : Not expected to adsorb on soil.

Other organisms relevant to                      : No data available  
the environment

**DNA-dependent DNA polymerase:**

**Ecotoxicology Assessment**

Toxicity Data on Soil                              : Not expected to adsorb on soil.

Other organisms relevant to                      : No data available  
the environment

**Persistence and degradability**

**Components:**

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

Biodegradability                                      : Result: Readily biodegradable.

**Bioaccumulative potential**

**Components:**

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

Bioaccumulation                                      : Bioconcentration factor (BCF): 3.16  
Remarks: Due to the distribution coefficient n-octanol/water,  
accumulation in organisms is not expected.

Partition coefficient: n-                              : Remarks: No data available  
octanol/water

**DNA-dependent DNA polymerase:**

Partition coefficient: n-                              : Remarks: No data available  
octanol/water

**Mobility in soil**

No data available



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**Other adverse effects**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Can be disposed as waste water, when in compliance with local regulations.
  
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**

- UN number : UN 1760
- Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(Guanidinium thiocyanate solution)
- Class : 8
- Packing group : III
- Labels : 8

**IATA-DGR**

- UN/ID No. : UN 1760
- Proper shipping name : Corrosive liquid, n.o.s.  
(Guanidinium thiocyanate solution)
- Class : 8
- Packing group : III
- Labels : Corrosive
- Packing instruction (cargo aircraft) : 856
- Packing instruction (passenger aircraft) : 852

**IMDG-Code**

- UN number : UN 1760
- Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(Guanidinium thiocyanate solution)
- Class : 8
- Packing group : III
- Labels : 8
- EmS Code : F-A, S-B
- Marine pollutant : no

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**Transport in bulk according to 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 : III  
 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**
**INTERNAL CONTROL INTERMEDIATE STOCK**
**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 SOCM I 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.



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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.

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

**INTERNAL CONTROL**



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**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 SOCM I 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:**

AICC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL





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- 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.

**LIAT MAGNETIC PARTICLES**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA 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** : 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 SOCM I 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.



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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.

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

**LYSIS BUFFER**



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**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 SOCM 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:

Phosphoric acid, sodium 7558-79-4 >= 1 - < 5 %  
salt (1:2)

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

Phosphoric acid, sodium 7558-79-4 >= 1 - < 5 %  
salt (1:2)

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**

Phosphoric acid, sodium salt (1:2) 7558-79-4

**Pennsylvania Right To Know**

Water 7732-18-5  
Thiocyanic acid, compd. with guanidine (1:1) 593-84-0  
Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- 9002-92-0  
Phosphoric acid, sodium salt (1:2) 7558-79-4

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals



**KIT C LIAT SARS COV2 FLU AB RSV**

Version 1.0                      Revision Date: 12-16-2022                      Date of last issue: -  
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**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**California List of Hazardous Substances**

Phosphoric acid, sodium salt (1:2)                      7558-79-4

**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 : Not 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.

**WASH BUFFER**

**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.





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- 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.

**ELUTION BUFFER**

**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 SOCM I 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



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**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:**

- AICC : 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.

**MASTER MIX-1**

**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.



**KIT C LIAT SARS COV2 FLU AB RSV**

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**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 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

1,2,3-Propanetriol	56-81-5	>= 5 - < 10 %
Methane, 1,1'-sulfinylbis-	67-68-5	>= 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-ethanediybis[N-(carboxymethyl)-	60-00-4	>= 0 - < 0.1 %

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-ethanediybis[N-(carboxymethyl)-	60-00-4	>= 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**

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

**Pennsylvania Right To Know**

Water	7732-18-5
1,2,3-Propanetriol	56-81-5
Glycine, N-[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]-	5704-04-1
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**

1,2,3-Propanetriol	56-81-5
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**The ingredients of this product are reported in the following inventories:**





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- AIIC : Not in compliance with the inventory
- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
  
non hazardous compounds (liquid)  
  
2'-Deoxyguanosine 5'-triphosphate trisodium salt  
  
2'-Deoxyadenosine 5'-(disodium dihydrogen triphosphate) (dATP)  
  
Uridine 5'-(tetrahydrogen triphosphate), 2'-deoxy-, trisodium salt  
  
2'-Deoxycytidine 5'-triphosphate disodium salt  
  
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.

**LIAT RESPIRATORY MMX-2**

**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





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- 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 : On the inventory, or 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.

**LIAT RESPIRATORY MMX-3**

**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 SOCM I 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:

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



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

Potassium hydroxide 1310-58-3                       $\geq 0 - < 0.1 \%$   
 (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**

Sodium azide (Na(N3))                      26628-22-8

**Pennsylvania Right To Know**

Water                      7732-18-5  
 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

**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

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**TSCA list**

No substances are subject to a Significant New Use Rule.

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

**INTERNAL CONTROL INTERMEDIATE STOCK**

**GHS label elements**

Not a hazardous substance or mixture.

**INTERNAL CONTROL**

**GHS label elements**

Not a hazardous substance or mixture.

**LIAT MAGNETIC PARTICLES**

**GHS label elements**

Not a hazardous substance or mixture.

**LYSIS BUFFER**

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
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

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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.

### **WASH BUFFER**

**GHS label elements**

Not a hazardous substance or mixture.

### **ELUTION BUFFER**

**GHS label elements**

Not a hazardous substance or mixture.

### **MASTER MIX-1**

**GHS label elements**

Not a hazardous substance or mixture.

### **LIAT RESPIRATORY MMX-2**

**GHS label elements**

Not a hazardous substance or mixture.

### **LIAT RESPIRATORY MMX-3**

**GHS label elements**

Not a hazardous substance or mixture.

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## **SECTION 16. OTHER INFORMATION**

**Further information**

# SAFETY DATA SHEET



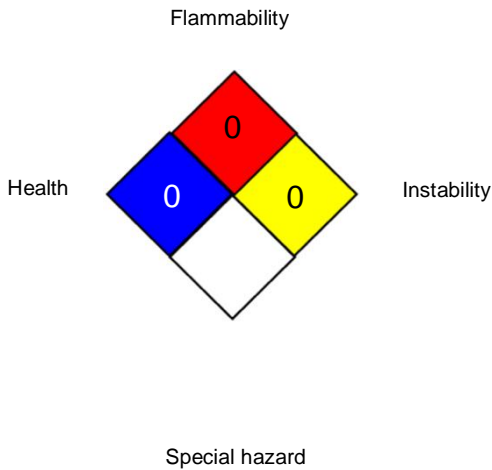
## KIT C LIAT SARS COV2 FLU AB RSV

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1.0

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Date of first issue: 12-16-2022

### NFPA 704:

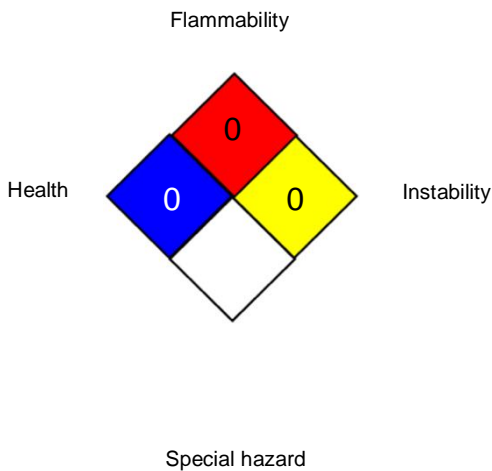


### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

### NFPA 704:



### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

# SAFETY DATA SHEET



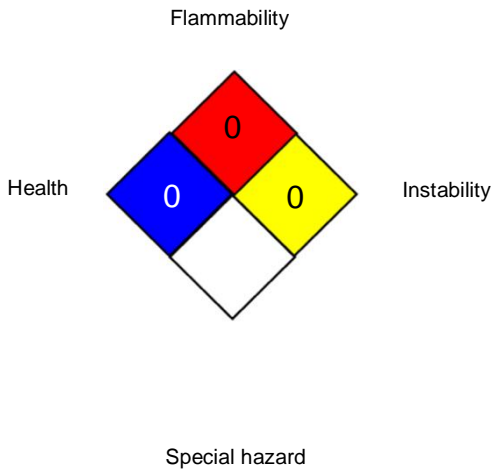
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### NFPA 704:

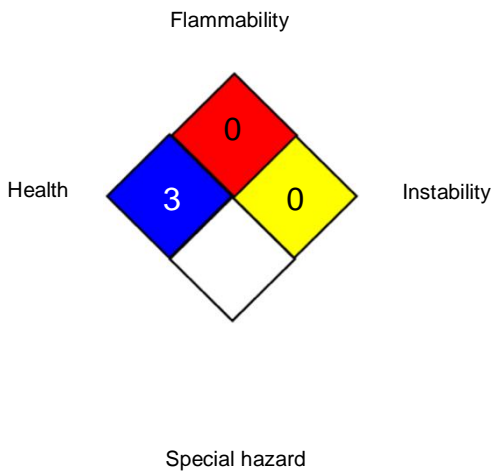


### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

### NFPA 704:



### HMIS® IV:

HEALTH	/	3
FLAMMABILITY	0	
PHYSICAL 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.



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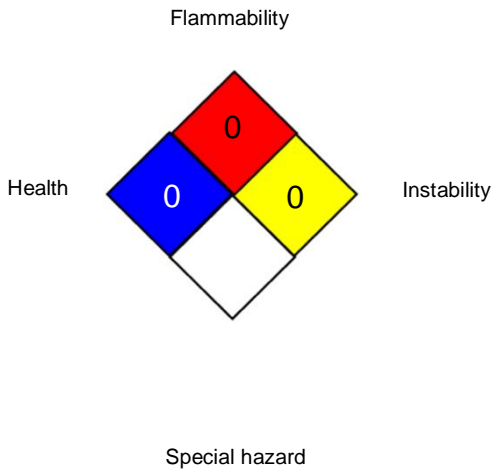
## KIT C LIAT SARS COV2 FLU AB RSV

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### NFPA 704:

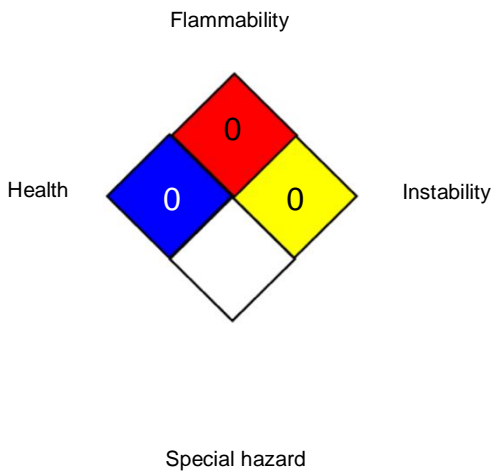


### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

### NFPA 704:



### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

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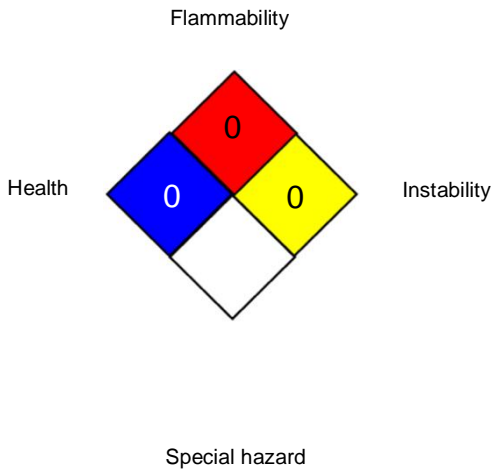
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Version  
1.0

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12-16-2022

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### NFPA 704:

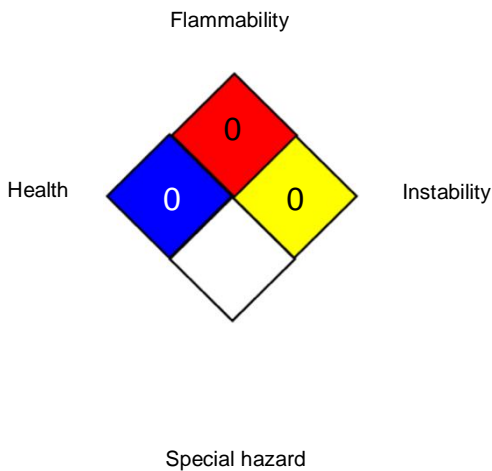


### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

### NFPA 704:



### HMIS® IV:

HEALTH	/	0
FLAMMABILITY	0	
PHYSICAL 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.

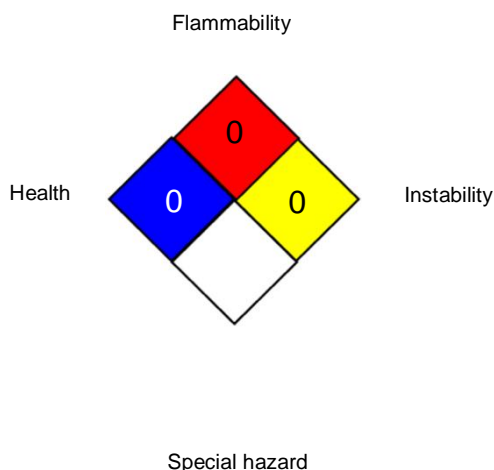
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**NFPA 704:**



**HMIS® IV:**

<b>HEALTH</b>	/	0
<b>FLAMMABILITY</b>	0	
<b>PHYSICAL HAZARD</b>	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.

**Full text of other abbreviations**

AIIIC - 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; TECL - 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

# SAFETY DATA SHEET



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Date of first issue: 12-16-2022

Revision Date : 12-16-2022

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.

US / Z8 / 2204