

## KIT COBAS LIAT STREP A

Version  
1.2

Revision Date:  
06-01-2016

Date of last issue: 04-21-2016  
Date of first issue: 12-09-2015

### SECTION 1. IDENTIFICATION

Product name : KIT COBAS LIAT STREP A  
Product code : 07341911190

#### Manufacturer or supplier's details

Company name of supplier : Roche Diagnostics

Address : 9115 Hague Road  
46250 Indianapolis IN

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.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labelling for the kit

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.  
P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

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P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 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.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
 P363 Wash contaminated clothing before reuse.

**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**
**COBAS LIAT STREP A****GHS Classification**

Acute toxicity (Oral) Category 4	H302: Harmful if swallowed.
Acute toxicity (Inhalation) Category 4	H332: Harmful if inhaled.
Serious eye damage Category 1	H318: Causes serious eye damage.
Respiratory sensitization Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization Category 1	H317: May cause an allergic skin reaction.
Substance name	: COBAS LIAT STREP A

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Guanidinium thiocyanate	593-84-0	>= 30 - < 50
Dimethyl Sulfoxide	67-68-5	>= 10 - < 20
3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol	9002-92-0	>= 1 - < 5
Proteinase K	39450-01-6	>= 1 - < 5

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**SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.  
Consult a physician.

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- Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Call a physician or poison control center immediately.  
Move to fresh air.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : If skin irritation persists, call a physician.  
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 : 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.
- 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.

**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.
- 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.  
Ensure adequate ventilation.  
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.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
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.
- Technical measures/Precautions : See label, package insert or internal guidelines

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**COBAS LIAT STREP A**
**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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Dimethyl Sulfoxide	67-68-5	TWA	250 ppm	US WEEL
Proteinase K	39450-01-6	IOEL	0.00006 mg/m <sup>3</sup>	Roche Industrial Hygiene Committee (RIHC)

### Hazardous components without workplace control parameters

Ingredients	CAS-No.
Guanidinium thiocyanate	593-84-0
3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol	9002-92-0

**Engineering measures** : No data available

### Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

Hand protection

Material : Protective gloves

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

### COBAS LIAT STREP A

Appearance : liquid

Color : No data available

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

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Flash point	:	not determined
Evaporation rate	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
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

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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 decomposition if stored and applied as directed.

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**SECTION 11. TOXICOLOGICAL INFORMATION*****COBAS LIAT STREP A*****Acute toxicity**

Harmful if swallowed or if inhaled.

**Ingredients:****Guanidinium thiocyanate:**

Acute oral toxicity	:	LD50 Oral (Rat): 593 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 1.5 mg/l Test atmosphere: dust/mist

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Method: Expert judgment

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Expert judgment**Dimethyl Sulfoxide:**

Acute oral toxicity : LD50 Oral (Rat): 14,500 mg/kg

LD50 Oral (Mouse): 7,920 mg/kg

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

Acute dermal toxicity : LD50 Dermal (Rat): 40,000 mg/kg

**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**

Acute oral toxicity : LD50 Oral (Rat): 2,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Ingredients:****Dimethyl Sulfoxide:**

Remarks: This information is not available.

**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**

Result: Irritating to skin.

**Proteinase K:**

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Ingredients:****Dimethyl Sulfoxide:**

Remarks: This information is not available.

**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**

Result: Risk of serious damage to eyes.

**Proteinase K:**

Result: Irritating to eyes.

Remarks: May cause irreversible eye damage.

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May cause an allergic skin reaction.

**Respiratory sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingredients:****Dimethyl Sulfoxide:**

Species: Guinea pig

Result: Does not cause skin sensitization.

Assessment: Mild eye irritation, Mild skin irritation

**Proteinase K:**

Assessment: May cause sensitization by skin contact.

Remarks: Causes sensitization.

Assessment: May cause sensitization by inhalation.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Ingredients:****Guanidinium thiocyanate:**

Remarks: 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.

**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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**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.

**Ingredients:****Dimethyl Sulfoxide:**

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

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**Proteinase K:**

Assessment: May cause respiratory irritation.

**STOT-repeated exposure**

Not classified based on available information.

**Ingredients:**
**Dimethyl Sulfoxide:**

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

**Proteinase K:**

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

**Ingredients:**
**Dimethyl Sulfoxide:**

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

**Aspiration toxicity**

Not classified based on available information.

**Ingredients:**
**Dimethyl Sulfoxide:**

No data available

**Proteinase K:**

No data available

**SECTION 12. ECOLOGICAL INFORMATION**
**COBAS LIAT STREP A**
**Ecotoxicity**
**Ingredients:**
**Guanidinium thiocyanate:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 89.1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia): 42.4 mg/l  
aquatic invertebrates Exposure time: 48 h

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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

Other organisms relevant to the environment : No data available

**Dimethyl Sulfoxide:**Toxicity to fish : LC50 (Fish): 32,500 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24,600 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202Toxicity to bacteria : EC50 (Photobacterium phosphoreum): ca. 70,000 mg/l  
Exposure time: 0.25 h**Ecotoxicology Assessment**

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

Other organisms relevant to the environment : No data available

**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**

M-Factor (Acute aquatic toxicity) : 1

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Proteinase K:****Ecotoxicology Assessment**

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

Other organisms relevant to the environment : No data available

**Persistence and degradability****Ingredients:****Dimethyl Sulfoxide:**Biodegradability : Biodegradation: 4 %  
Exposure time: 1 dBiodegradation: 6 %  
Exposure time: 8 dBiodegradation: 29 %  
Exposure time: 15 d

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Exposure time: 28 d  
Method: OECD Test Guideline 302**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**Biodegradability : Biodegradation: > 99 %  
Exposure time: 672 h  
Method: OECD Test Guideline 302**Bioaccumulative potential****Ingredients:****Guanidinium thiocyanate:**Partition coefficient: n- : log Pow: -1.38  
octanol/water**Dimethyl Sulfoxide:**Partition coefficient: n- : log Pow: -1.35  
octanol/water**3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**Partition coefficient: n- : Remarks: No data available  
octanol/water**Proteinase K:**Partition coefficient: n- : Remarks: No data available  
octanol/water**Mobility in soil**

No data available

**Other adverse effects****Ingredients:****3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol:**Additional ecological infor- : Very toxic to aquatic life.  
mation : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.**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 chemi-  
cal or used container.  
Send to a licensed waste management company.

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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 Regulation****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**
**COBAS LIAT STREP A****EPCRA - Emergency Planning and Community Right-to-Know****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 311/312 Hazards** : Acute Health Hazard**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

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

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

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

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

Dimethyl Sulfoxide	67-68-5	14.9999 %
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Glycine

56-40-6

4.9999 %

**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

**US State Regulations**
**Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

Guanidinium thiocyanate	593-84-0	30 - 50 %
Dimethyl Sulfoxide	67-68-5	10 - 20 %
Trehalose	99-20-7	5 - 10 %
non hazardous compounds (liquid)	Not Assigned	5 - 10 %
Glycine	56-40-6	1 - 5 %
Tris	77-86-1	1 - 5 %
3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol	9002-92-0	1 - 5 %
Proteinase K	39450-01-6	1 - 5 %
Water	7732-18-5	1 - 5 %

**New Jersey Right To Know**

Guanidinium thiocyanate	593-84-0	30 - 50 %
Dimethyl Sulfoxide	67-68-5	10 - 20 %
Trehalose	99-20-7	5 - 10 %
non hazardous compounds (liquid)	Not Assigned	5 - 10 %
Glycine	56-40-6	1 - 5 %
Tris	77-86-1	1 - 5 %
3,6,9,12,15,18,21,24,27-nonaoxanonatriacontan-1-ol	9002-92-0	1 - 5 %
Proteinase K	39450-01-6	1 - 5 %

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

CH INV	Not in compliance with the inventory non hazardous compounds (liquid)
DSL	This product contains the following components that are not on the Canadian DSL nor NDSL. non hazardous compounds (liquid) Proteinase K
AICS	Not in compliance with the inventory non hazardous compounds (liquid) Proteinase K
NZIoC	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory Guanidinium thiocyanate Trehalose non hazardous compounds (liquid)

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	Proteinase K Water
ISHL	Not in compliance with the inventory Guanidinium thiocyanate non hazardous compounds (liquid) Water
KECI	Not in compliance with the inventory Guanidinium thiocyanate non hazardous compounds (liquid) Proteinase K
PICCS	Not in compliance with the inventory Trehalose non hazardous compounds (liquid) Proteinase K
IECSC	Not in compliance with the inventory non hazardous compounds (liquid)

**TSCA list**

No substances are subject to a Significant New Use Rule.

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

**COBAS LIAT STREP A****GHS label elements**

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H302 + H332 Harmful if swallowed or if inhaled.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements

: **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.  
P285 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON

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CENTER/doctor if you feel unwell. Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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; 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

**Further information**

# SAFETY DATA SHEET



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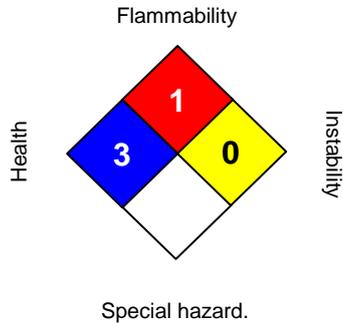
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#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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The information provided in this Material 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 re-lease and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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