BIL-T Gen.3, 400Tests cobas c 111

Version 1.2 Revision Date 12-12-2013 Print Date 01-17-2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BIL-T Gen.3, 400Tests cobas c 111

Mat.-No./ Genisys-No. : 05795648190

Manufacturer or supplier's details

Company : Roche Diagnostics
-

Address : 9115 Hague Road
46250 Indianapolis IN

Telephone : 1-800-428-5074

Emergency telephone number : +49(0)621-759-2012 oder +49(0)621-759-4848 oder +49(0)8856-60-2629

Emergency telephone number:

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

Physical state	liquid

GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label element

Hazard pictograms :

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P363 Wash contaminated clothing before reuse.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Aggravated Medical Condition : None known.
Symptoms of Overexposure : No information available.

Carcinogenicity:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

R1

Substance / Mixture : Preparation

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-	60864-33-7	>= 5 - < 10
tetrahydrothiophene 1,1-dioxide	126-33-0	>= 5 - < 10
Polidocanol	9002-92-0	>= 1 - < 5
Triton X-100	9002-93-1	>= 1 - < 5
hydrogen chloride	7647-01-0	>= 1 - < 5
4-aminobenzoic acid	150-13-0	>= 1 - < 5

R2

Substance / Mixture : Preparation

Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this 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.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING 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 firefighting	:	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 firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

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.
If the product contaminates rivers and lakes or drains inform respective authorities.

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 safe handling : Do not breathe vapours/dust.
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.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

R1

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrogen chloride	7647-01-0	C	2 ppm	ACGIH

		C	5 ppm 7 mg/m3	NIOSH REL
		C	5 ppm 7 mg/m3	OSHA Z-1
		C	5 ppm 7 mg/m3	OSHA P0
4-aminobenzoic acid	150-13-0	TWA	5 mg/m3	US WEEL

R2

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Hand protection
Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

R1

Appearance : liquid

pH : ca. 1

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point	:	does not flash
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Density	:	1.04 g/cm3
Solubility(ies)		
Water solubility	:	completely miscible
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available

R2

Appearance	:	liquid
pH	:	1.33
Melting point/range	:	no data available
Boiling point/boiling range	:	no data available
Flash point	:	does not flash
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Solubility(ies)		
Water solubility	:	completely miscible
Auto-ignition temperature	:	no data available
Thermal decomposition	:	no data available

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

R1

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate : 4,362 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate : 37.97 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:

Acute oral toxicity	:	Acute toxicity estimate : 500 mg/kg Method: Expert judgement

tetrahydrothiophene 1,1-dioxide:

Acute oral toxicity	:	LD50 Oral rat: 1,941 mg/kg
Acute dermal toxicity	:	LD50 Dermal rabbit: 4,009 mg/kg
		LD50 Dermal rat: > 3,800 mg/kg

Polidocanol:

Acute oral toxicity	:	LD50 Oral rat: 2,000 mg/kg

Triton X-100:

Acute oral toxicity	:	LD50 Oral rat: 1,900 - 5,000 mg/kg
		Acute toxicity estimate : 500 mg/kg Method: Expert judgement
Acute dermal toxicity	:	LD50 Dermal rabbit: > 3,000 mg/kg

4-aminobenzoic acid:

Acute oral toxicity	:	LD50 Oral rat: > 6,000 mg/kg
		LD50 Oral mouse: 2,850 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:
Remarks: This information is not available.

tetrahydrothiophene 1,1-dioxide:
Remarks: May cause skin irritation in susceptible persons.

Polidocanol:
Result: Irritating to skin.

hydrogen chloride:
Result: Causes burns.
Remarks: Extremely corrosive and destructive to tissue.

4-aminobenzoic acid:
Result: Skin irritation
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:
Remarks: This information is not available.

tetrahydrothiophene 1,1-dioxide:
Remarks: This information is not available.

Polidocanol:
Result: Risk of serious damage to eyes.

Triton X-100:
Result: Risk of serious damage to eyes.
Remarks: May cause irreversible eye damage.

hydrogen chloride:
Result: Risk of serious damage to eyes.
Remarks: May cause irreversible eye damage.

4-aminobenzoic acid:
Result: Eye irritation
Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

tetrahydrothiophene 1,1-dioxide:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Triton X-100:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

hydrogen chloride:
Assessment: May cause respiratory irritation.

4-aminobenzoic acid:
Exposure routes: inhalation (dust/mist/fume)
Assessment: May cause respiratory irritation.

STOT - repeated exposure

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

tetrahydrothiophene 1,1-dioxide:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Triton X-100:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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

4-aminobenzoic acid:
Assessment: The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Aspiration toxicity

Components:
Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-:
no data available

tetrahydrothiophene 1,1-dioxide:
no data available

Triton X-100:
no data available

hydrogen chloride:
no data available

4-aminobenzoic acid:
no data available

R2

Acute toxicity

Product:

Acute inhalation toxicity	:	Acute toxicity estimate : 30.1 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

SECTION 12. ECOLOGICAL INFORMATION

R1

Ecotoxicity

Product:

Ecotoxicology Assessment

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

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]- :

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.

tetrahydrothiophene 1,1-dioxide :

Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 852 mg/l Exposure time: 48 h
Toxicity to algae	:	IC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h

Ecotoxicology Assessment

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

Polidocanol :

M-Factor	:	1

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

Triton X-100 :

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4 - 8.9 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 18 - 26 mg/l Exposure time: 48 h
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

hydrogen chloride :

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

4-aminobenzoic acid :

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 546 mg/l Exposure time: 24 h
Toxicity to bacteria	:	EC50 (Photobacterium phosphoreum): 27.4 mg/l Exposure time: 0.5 h
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:

Polidocanol :

Biodegradability	:	Biodegradation: > 99 % Exposure time: 672 h Method: OECD Test Guideline 302

Triton X-100 :

Biodegradability	:	Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301B

4-aminobenzoic acid :

Biodegradability	:	Biodegradation: 92 % Exposure time: 28 d

Method: OECD Test Guideline 302

Bioaccumulative potential

Components:
tetrahydrothiophene 1,1-dioxide :
Partition coefficient: n-octanol/water : log Pow: -0.77
Triton X-100 :
Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

4-aminobenzoic acid :
Partition coefficient: n-octanol/water : log Pow: 0.68

Mobility in soil

no data available

Other adverse effects

no data available

Product:

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

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

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

Components:
Polidocanol :

Additional ecological information : Very toxic to aquatic life., An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

hydrogen chloride :

Additional ecological information : no data available

R2

Ecotoxicity

Product:

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

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Product:

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	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.
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.

SECTION 14. TRANSPORT INFORMATION

International regulation

IATA-DGR

UN/ID No.	:	3316
Proper shipping name	:	
Class	:	9
Packing group	:	II
Labels	:	9
Packing instruction (cargo aircraft)	:	960
Packing instruction (passenger aircraft)	:	960

IMDG-Code

UN number	:	3316
Proper shipping name	:	
Class	:	9
Packing group	:	II
Labels	:	9
EmS Code	:	, S-P
Marine pollutant	:	no

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

Not applicable for product as supplied.

National Regulations

49 CFR

UN/ID/NA number	:	3316
Proper shipping name	:	Chemical kits
Class	:	9
Packing group	:	II
Labels	:	9
ERG Code	:	171
Marine pollutant	:	no

Special precautions for user

Remarks	:	no data available

SECTION 15. REGULATORY INFORMATION

R1

OSHA Hazards : Harmful by ingestion., Corrosive to skin, Severe eye irritant, Moderate respiratory irritant

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects
Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrochloric acid (theor. 100%)	7647-01-0	5000	

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
hydrogen chloride 7647-01-0 2 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
hydrogen chloride 7647-01-0 2 %
The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):
hydrogen chloride 7647-01-0 2 %

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

tetrahydrothiophene 1,1-dioxide	126-33-0	5 %

Clean Water Act

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

hydrogen chloride	7647-01-0	2 %

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

hydrogen chloride	7647-01-0	2 %

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

tetrahydrothiophene 1,1-dioxide	126-33-0	5 - 10 %
hydrogen chloride	7647-01-0	1 - 5 %

Pennsylvania Right To Know

water	7732-18-5	70 - 90 %
Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-	60864-33-7	5 - 10 %
tetrahydrothiophene 1,1-dioxide	126-33-0	5 - 10 %
Polidocanol	9002-92-0	1 - 5 %
hydrogen chloride	7647-01-0	1 - 5 %

New Jersey Right To Know

water	7732-18-5	70 - 90 %
Poly(oxy-1,2-ethanediyl), .alpha.-(phenylmethyl)-.omega.-[(1,1,3,3-tetramethylbutyl)phenoxy]-	60864-33-7	5 - 10 %
tetrahydrothiophene 1,1-dioxide	126-33-0	5 - 10 %
Polidocanol	9002-92-0	1 - 5 %
Triton X-100	9002-93-1	1 - 5 %
hydrogen chloride	7647-01-0	1 - 5 %

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

R2

OSHA Hazards : No OSHA Hazards

WHMIS Classification : E: Corrosive Material

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrochloric acid (theor. 100%)	7647-01-0	5000	

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : 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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

hydrogen chloride 7647-01-0 0.272 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

hydrogen chloride 7647-01-0 0.272 %

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

Clean Water Act

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

hydrogen chloride 7647-01-0 0.272 %

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

hydrogen chloride 7647-01-0 0.272 %

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

hydrogen chloride 7647-01-0 0.1 - 1 %

Pennsylvania Right To Know

water 7732-18-5 90 - 100 %
hydrogen chloride 7647-01-0 0.1 - 1 %

New Jersey Right To Know

water 7732-18-5 90 - 100 %

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Inventories

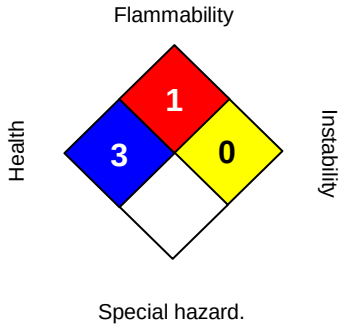
AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

R1

NFPA:



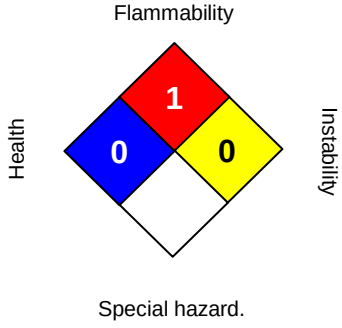
HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

R2

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

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.