

10M2-2 Antimony 10,000 μg/mL in 50% HCI

High-Purity Standards

Catalogue number: **10M2-2** Version No: **2.2**

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 3

Issue Date: **08/30/2016** Print Date: **08/30/2016** S.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	10M2-2 Antimony 10,000 µg/mL in 50% HCl
Synonyms	10,000μg/mL Antimony in 50% HCl
Proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Other means of identification	10M2-2

Recommended use of the chemical and restrictions on use

Relevant identified uses The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

Emergency phone number

Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Classification

Serious Eye Damage Category 1, Skin Corrosion/Irritation Category 1B, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Metal Corrosion Category 1

Label elements

GHS label elements





SIGNAL WORD

DANGER

Hazard statement(s)

H318	auses serious eye damage.	
H314	Causes severe skin burns and eye damage.	
H335	May cause respiratory irritation.	
H290	May be corrosive to metals.	

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Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statement(s) Response

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary statement(s) Storage

P405

Store locked up

Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7440-36-0	1	antimony
7732-18-5	balance	water
7647-01-0	50	hydrochloric acid

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact

If this product comes in contact with the eyes:

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes
- Transport to hospital or doctor without delay.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel

Skin Contact

If skin or hair contact occurs:

- ▶ Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
 - Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- ► Transport to hospital, or doctor.
- ▶ If fumes or combustion products are inhaled remove from contaminated area.
 - Lay patient down. Keep warm and rested.
 - Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
 - Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary
- Transport to hospital, or doctor, without delay. Inhalation
 - ▶ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
 - ▶ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).
 - As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.
 - Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

This must definitely be left to a doctor or person authorised by him/her

(ICSC13719)

Ingestion

- ▶ For advice, contact a Poisons Information Centre or a doctor at once.
- Urgent hospital treatment is likely to be needed.
- If swallowed do NOT induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ► Transport to hospital or doctor without delay.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise
- Formage and the strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

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INGESTION:

- ▶ Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- ▶ DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.
- ▶ Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

- Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping
- ▶ Deep second-degree burns may benefit from topical silver sulfadiazine.

EYE:

- Fey e injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury
- ▶ Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

If exposure has been severe and/or symptoms marked, observation in hospital for 48 hours should be considered due to possibility of delayed pulmonary oedema.

- ▶ Chelation with British Anti-Lewisite (BAL) for serious antimony exposures should be employed
- Dialyse as needed. The role of exchange diffusion is not clear.
- Be sure to monitor for dysrhythmias.

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility

None known.

Special protective equipment and precautions for fire-fighters

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re/Explosi	on H	azard
		re/Explosion H

Fire Fighting

Non combustible.

Decomposition may produce toxic fumes of; hydrogen chloride Contains low boiling substance: Closed containers may rupture due to pressure buildup under

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

- Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
- Clean up all spills immediately.
- **Major Spills**
- Clear area of personnel and move upwind.

Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling

Contains low boiling substance:

Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately.

- Avoid all personal contact, including inhalation.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

Other information

► Store in original containers.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ DO NOT use aluminium or galvanised containers
- Check regularly for spills and leaks
- ▶ Lined metal can, lined metal pail/ can.

For low viscosity materials

Drums and jerricans must be of the non-removable head type.

Storage incompatibility

Inorganic acids are generally soluble in water with the release of hydrogen ions. Hydrogen chloride:

reacts strongly with strong oxidisers (releasing chlorine gas), acetic anhydride, caesium cyanotridecahydrodecaborate(2-), ethylidene difluoride, hexalithium disilicide, metal acetylide, sodium, silicon dioxide, tetraselenium tetranitride, and many organic materials

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- is incompatible with alkaline materials, acetic anhydride, acetylides, aliphatic amines, alkanolamines, alkylene oxides, aluminium, aluminium-titanium alloys, aromatic amines, amines, amines, 2-aminoethanol, ammonia, ammonium hydroxide, borides, calcium phosphide, carbides, carbonates, cyanides, chlorosulfonic acid, ethylenediamine, ethyleneimine, epichlorohydrin, formaldehyde, isocyanates, metals, metal oxides, metal hydroxides, metal acetylides, metal carbides, oleum, organic anhydrides, potassium permanganate, perchloric acid, phosphides, 3-propiolactone, silicides, sulfides, sulfites, sulfitics, sulfices, sulfides, sulfide
- ▶ attacks most metals forming flammable hydrogen gas, and some plastics, rubbers and coatings
- reacts with zinc, brass, galvanised iron, aluminium, copper and copper alloys
- ► Reacts vigorously with alkalis
- Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	antimony	Antimony and compounds	0.5 mg/m3	Not Available	Not Available	(as Sb)
US ACGIH Threshold Limit Values (TLV)	antimony	Antimony and compounds, as Sb	0.5 mg/m3	Not Available	Not Available	TLV® Basis: Skin & URT irr
US NIOSH Recommended Exposure Limits (RELs)	antimony	Antimony metal, Antimony powder, Stibium	0.5 mg/m3	Not Available	Not Available	[*Note: The REL also applies to other antimony compounds (as Sb).]
US OSHA Permissible Exposure Levels (PELs) - Table Z1	hydrochloric acid	Hydrogen chloride	Not Available	Not Available	7 mg/m3 / 5 ppm	Not Available
US ACGIH Threshold Limit Values (TLV)	hydrochloric acid	Hydrogen chloride	Not Available	Not Available	2 ppm	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	hydrochloric acid	Anhydrous hydrogen chloride; Aqueous hydrogen chloride (i.e., Hydrochloric acid, Muriatic acid) [Note: Often used in an aqueous solution.]	Not Available	Not Available	7 mg/m3 / 5 ppm	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
antimony	Antimony	0.5 mg/m3	0.5 mg/m3	80 mg/m3
hydrochloric acid	Hydrogen chloride; (Hydrochloric acid)	Not Available	Not Available	Not Available
hydrochloric acid	Deuterochloric acid; (Deuterium chloride)	1.8 ppm	22 ppm	100 ppm

Ingredient	Original IDLH	Revised IDLH
antimony	80 mg/m3	50 mg/m3
water	Not Available	Not Available
hydrochloric acid	100 ppm	50 ppm

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	► Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.
Body protection	See Other protection below
Other protection	► Overalls.
Thermal hazards	Not Available

Respiratory protection

Type B-P Filter of sufficient capacity.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	colorless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	<2	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	► Contact with alkaline material liberates heat
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on	toxicological	effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. The material can cause respiratory irritation in some persons. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. Inhalation of antimony can cause breathing difficulties and gastrointestinal upset including sore throat, shallow breathing, dizziness, weight loss, gum bleeds and anaemia. Hydrogen chloride (HCI) vapour or fumes present a hazard from a single acute exposure. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Antimony poisoning causes similar symptoms to arsenic poisoning although vomiting is more prominent.
Skin Contact	The material can produce chemical burns following direct contact with the skin. Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Skin contact with antimony compounds may result in redness and severe irritation with the formation of itchy papules, pustules, skin lesions/ small septic blisters (antimony spots) within a few hours. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Еуе	The material can produce chemical burns to the eye following direct contact. If applied to the eyes, this material causes severe eye damage. Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns.
Chronic	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Repeated or prolonged exposure to antimony and its compounds may produce inflammation of the mouth cavity, dry throat, metallic taste, gum infection, perforation of the nasal septum and throat, laryngitis, headache, difficulty breathing, indigestion, nausea, vomiting, diarrhoea, loss of appetite, anaemia, weight loss, tightness and pain in the chest, sleeplessness, muscular pain and weakness, dizziness, pharyngitis, bronchitis and pneumonia. Chronic minor exposure to hydrogen chloride (HCl) vapour or fume may cause discolouration or erosion of the teeth, bleeding of the nose and gums; and ulceration of the nasal mucous membranes.

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TOXICITY	IRRITATION
Not Available	Not Available

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	TOXICITY			IRRITATION
antimony	Dermal (rabbit) LD50: >8000 mg/kg ^[1]			Nil reported
	Oral (rat) LD50: 100 mg/kg ^[2]			
	TOXICITY			IRRITATION
water	Oral (rat) LD50: >90000 mg/kg ^[2]			Not Available
	TOXICITY	IDE	RITATION	
hydrochlorio coid	Inhalation (rat) LC50: 3124 ppm/1hr ^[2]		e (rabbit): 5mg/3	Oe - mild
hydrochloric acid		Еуе	e (rabbit). Sirig/s	us - milu
	Oral (rat) LD50: 900 mg/kg ^[2]			
HYDROCHLORIC ACID	extracted from RTECS - Register of Toxic Effect of chemical Substances The material may be irritating to the eye, with prolonged contact causing inf The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.	flammation.		
10M2-2 Antimony 10,000	Asthma-like symptoms may continue for months or even years after exposure to the material ceases.			
µg/mL in 50% HCI & HYDROCHLORIC ACID	Asthma-like symptoms may continue for months or even years after exposur	re to the material cea	ses.	
μg/mL in 50% HCl &	Asthma-like symptoms may continue for months or even years after exposur for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells			when the pH falls to about 6.5.
µg/mL in 50% HCI & HYDROCHLORIC ACID 10M2-2 Antimony 10,000 µg/mL in 50% HCI &	for acid mists, aerosols, vapours			when the pH falls to about 6.5.
µg/mL in 50% HCl & HYDROCHLORIC ACID 10M2-2 Antimony 10,000 µg/mL in 50% HCl & HYDROCHLORIC ACID WATER &	for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells		enetic damage v	when the pH falls to about 6.5.
µg/mL in 50% HCI & HYDROCHLORIC ACID 10M2-2 Antimony 10,000 µg/mL in 50% HCI & HYDROCHLORIC ACID WATER & HYDROCHLORIC ACID	for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells No significant acute toxicological data identified in literature search.	are susceptible to go	enetic damage v	when the pH falls to about 6.5.
µg/mL in 50% HCI & HYDROCHLORIC ACID 10M2-2 Antimony 10,000 µg/mL in 50% HCI & HYDROCHLORIC ACID WATER & HYDROCHLORIC ACID Acute Toxicity	for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells No significant acute toxicological data identified in literature search.	are susceptible to go	enetic damage v	when the pH falls to about 6.5.
µg/mL in 50% HCI & HYDROCHLORIC ACID 10M2-2 Antimony 10,000 µg/mL in 50% HCI & HYDROCHLORIC ACID WATER & HYDROCHLORIC ACID Acute Toxicity Skin Irritation/Corrosion Serious Eye	for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells No significant acute toxicological data identified in literature search.	are susceptible to go Carcinogenicity Reproductivity	enetic damage v	when the pH falls to about 6.5.

Legend:

🗶 – Data available but does not fill the criteria for classification

✓ – Data required to make classification available

O - Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
antimony	LC50	96	Fish	0.93mg/L	2
antimony	EC50	48	Crustacea	1mg/L	2
antimony	EC50	96	Algae or other aquatic plants	0.61mg/L	2
antimony	EC50	96	Crustacea	0.5mg/L	2
antimony	NOEC	720	Fish	>0.0075mg/L	2
water	LC50	96	Fish	897.520mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	EC50	384	Crustacea	199.179mg/L	3
hydrochloric acid	LC50	96	Fish	70.057mg/L	3
hydrochloric acid	EC50	96	Algae or other aquatic plants	344.947mg/L	3
hydrochloric acid	EC50	9.33	Fish	0.014000mg/L	4
hydrochloric acid	NOEC	0.08	Fish	10mg/L	4

Ecotoxicity:

The tolerance of water organisms towards pH margin and variation is diverse.

For Chloride: Although inorganic chloride ions are not normally considered toxic they can exist in effluents at acutely toxic levels.

Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For Antimony (Sb):

Environmental Fate: Antimony occurs naturally in the Earth s crust and in seawater.

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways.

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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
hydrochloric acid	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
water	LOW (LogKOW = -1.38)
hydrochloric acid	LOW (LogKOW = 0.5392)

Mobility in soil

Ingredient	Mobility
water	LOW (KOC = 14.3)
hydrochloric acid	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal

- ► Containers may still present a chemical hazard/ danger when empty.
- Legislation addressing waste disposal requirements may differ by country, state and/ or territory.
- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ► Recycle wherever possible.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

Land transport (DOT)

UN number	1789
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)
Transport hazard class(es)	Class 8 Subrisk Not Applicable
Packing group	П
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label 8 Special provisions A3, A6, B3, B15, IB2, N41, T8, TP2

Air transport (ICAO-IATA / DGR)

UN number	1789	
UN proper shipping name	Hydrochloric acid (contains hydrochloric acid)	
Transport hazard class(es)	ICAO/IATA Class 8 ICAO / IATA Subrisk Not Applicable ERG Code 8L	
Packing group	II	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions	A3A803 855 30 L 851
	Passenger and Cargo Maximum Qtv / Pack	1 L

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Passenger and Cargo Limited Quantity Packing Instructions	Y840
Passenger and Cargo Limited Maximum Qty / Pack	0.5 L

Sea transport (IMDG-Code / GGVSee)

UN number	1789
UN proper shipping name	HYDROCHLORIC ACID (contains hydrochloric acid)
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable
Packing group	II .
Environmental hazard	Not Applicable
Special precautions for user	EMS Number F-A, S-B Special provisions Not Applicable Limited Quantities 1 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Hydrochloric acid	Z	3

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ANTIMONY(7440-36-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
US - Alaska Limits for Air Contaminants	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - California Permissible Exposure Limits for Chemical Contaminants	Contaminants
US - Hawaii Air Contaminant Limits	US - Washington Permissible exposure limits of air contaminants
US - Idaho - Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Michigan Exposure Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Minnesota Permissible Exposure Limits (PELs)	US EPCRA Section 313 Chemical List
US - Oregon Permissible Exposure Limits (Z-1)	US NIOSH Recommended Exposure Limits (RELs)
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

HYDROCHLORIC ACID(7647-01-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
US - Alaska Limits for Air Contaminants	US - Washington Permissible exposure limits of air contaminants
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
(CRELs)	US ACGIH Threshold Limit Values (TLV)
US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Hawaii Air Contaminant Limits	US EPCRA Section 313 Chemical List
US - Idaho - Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Michigan Exposure Limits for Air Contaminants	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Minnesota Permissible Exposure Limits (PELs)	US SARA Section 302 Extremely Hazardous Substances
US - Oregon Permissible Exposure Limits (Z-1)	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants	

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name Reportable Quantity in Pounds (Ib)	Reportable Quantity in kg
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Antimony 5000 2270 Hydrochloric acid 5000 2270

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (water; hydrochloric acid; antimony)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (water; antimony)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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