

Material Safety Data Sheet

Hydrobromic Acid (RXSOL-19-3073-035)



1. Product and Company Identification

Product Name : Hydrobromic Acid
Part Number : RXSOL-19-3073-035

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / information on ingredients

Name of Substance	Cas Number	EINECS No	Wt. %	Symbol
Hydrobromic acid	10035-10-6	233-113-0	>= 40 - 50%	Xi

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Precautionary statements - prevention	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements	none
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Mixtures	Synonyms : Hydrobromic acid Formula : HBr Molecular weight : 80,91 g/mol

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physicians	Treat symptomatically.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective Equipment	Use personal protective equipment.
Hazardous combustion products	Decomposition products may include the following materials: Nitrous gases (NOx), Sulphur oxides, Ammonia (NH ₃), Amines.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
Special hazards arising from the substance or mixture	Hydrogen bromide gas
Further information	No data available

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection. For precautions see section 2.2.
Storage	Store in cool place. 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. Air and light sensitive.
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

Engineering Control Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal Protection Eye protection : Wear eye protection/ face protection.
Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:	Ingredients	CAS No	Form of exposure	Value	UK EH40 OES (table 2)
	Sulphur Dioxide	7446-09-5	TWA	5.3 mg/m3	2 ppm
			STEL	13 mg/m3	5 ppm
	Ethane-1-2-Diol	107-21-1	TWA	52 mg/m3	20 ppm
			STEL	104mg/m3	40 ppm
	Oropan-2-ol	67-63-0	TWA	999 mg/m3	400 ppm
			STEL	1,250 mg/m3	500 ppm

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Light Brown
Odour	No Data available
Boiling point and boiling range	100 °C at 1.013 hPa
Flash Point	Not applicable
Freezing Point	No Data Available
pH	No Dataavailable
Evaporation rate	No Dataavailable
Flammability (solid, gas)	No Dataavailable
Upper explosion limit	No Dataavailable
Lower explosion limit	No Dataavailable
Explosive properties	No Dataavailable
Vapor pressure	11 hPa at 25 °C
Relative vapor density	2,79 - (Air = 1.0)
Relative density	1,49 g/cm3 at 25 °C
Water solubility	No Dataavailable
Solubility in other solvents	No Dataavailable
Partition coefficient: octanol	No Dataavailable
Autoignition temperature	No Dataavailable
Thermal decomposition	No Dataavailable
Viscosity, kinematic	No Dataavailable
Explosive properties	No Dataavailable
Oxidizing properties	No Dataavailable
Molecular weight	No Dataavailable
VOC	No Dataavailable
Other safety information	Relative vapour density 2,79 - (Air = 1.0)

10. Stability and reactivity

Recativity	No Dataavailable
Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Incompatible materials	Strong oxidizing agents, Strong bases, Ammonia, Ozone, Fluorine
Hazardous Decomposition	Hazardous decomposition products formed under fire conditions. - Hydrogen bromide gas Other decomposition products - No data available In the event of fire: see section 5
Condition to Avoid	None Known
Polymerization	Will not occur.

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	No Dataavailable
Skin	No Data available
Ingestion	Causes digestive tract burns
Inhalation	Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Sensitisation possible through inhalation
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	LD50 200-2,000mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Classification	The classification was made by the conventional (calculation) method of Dangerous Preparations Directive(1999/45/EC)

12. Ecological information

Environmental Effects	No Dataavailable
Toxicity to fish	No Dataavailable
Toxicity to daphnia and others	No Dataavailable
Toxicity to algae	No Dataavailable
Biodegradability	> 60% (28 d)
Persistence and degradability	No Dataavailable
Bioaccumulative potential	No Data available
Mobility in soil	No Dataavailable
Persistence and degradability	No Dataavailable
Bioaccumulative potential	No Dataavailable
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
Other adverse effects	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

14. Transport information

Hazard Pictograms:

UN	Number	ADR/RID: 1788 IMDG: 1788 IATA: 1788
Proper shipping name		ADR/RID: HYDROBROMIC ACID IMDG: HYDROBROMIC ACID IATA: Hydrobromic acid
Transport hazard class(es)	8	
ADR/RID	8	
Subsidiary risk IMDG	8	
Subsidiary risk IATA	8	
Packing group		
Packing group	II	
Environmental hazards		
Environmental hazards	No	
Marine pollutant	No	
ADR/RID		
Hazard ID	80	
Tunnel Category	(E)	
IMDG		
EmS Code	F-A S-B	
IATA		
Packing Instruction (Cargo)	856	
Maximum quantity	60 L	
Packing Instruction (Passenger)	852	
Maximum quantity	5 L	

15. Regulatory information

Regulations	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006
Chemical safety assessment	For this product a chemical safety assessment was not carried out
Further information	FOR INDUSTRIAL USE. Water Hazard Class: WGK 1. PR Number - 1821143. Product Declaration Number - P-14188 (Norwegian).

16. Other information

Other
Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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