



SAFETY DATA SHEET


HYDROBROMIC ACID 48% (HBr)

1. Product Identification

Product name	: Hydrogen Bromide aqueous.
CAS No	: 10035-10-6.
Molecular Weight	: 80.91 g/mol.
Chemical Formula	: HBr.
Details of the supplier of the Safety data sheet	: VOPTASCH No 394, Block B2, Skyland, İstanbul, TÜRKİYE info@Voptasch.com

2. Hazards Identification.

Emergency Overview

OSHA Hazards	Corrosive.
Target	: Eyes, skin, mucous membrane.
GHS Classification	: Serious Eye damage and skin burns. : Irritation Category.
GHS Label elements, including precautionary statements	
Pictograms	
Signal Word	: Danger
Hazard statement(s)	
H314	: Causes severe skin burns and eye damage



H335	: May cause respiratory irritations
Precautionary statement(s)	
P280	: Do not breathe fume/gas/mist/vapor/spray.
P280	: Wear protective gloves/protective clothing/face protection
P301+P330+P331	: IF SWALLOWED: Rinse mouth. Do not induce vomiting
P305+P351+P338	: IF IN EYES: Rinse cautiously with water for several minutes. : Remove contact lenses, if present and easy to do.
P310	: Immediately call a poison center or doctor.
Hazardous Materials Identification System (HMIS) Classification	
Physical hazards	: 3
Personal protection	: 0
Flammability	: 0
Personal hazards	: 0
National Fire Protection Association (NFPA) Rating	
Health Rating	: 3
Flammability Rating	: 0
Reactivity Rating	: 0
Contact Rating	: 0
Potential Health Effects	
Inhalation	: Corrosive to mucous membrane and respiratory tract.
Skin	: Corrosive and skin burns
Ingestion	: Sore throat, abdominal pain and diarrhea.



3.Composition/Information on Ingredients.

Ingredients	CAS No	Percent	Hazardous
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Hydrobromic acid	10035-10-6	48%	Yes
Water	7732-18-5	52%	-

4.First Aid Measures

Eyes	: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. : Get medical aid.
Skin	: Get medical aid. Immediately flush skin with mild soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. : Treat the contaminated clothing with 10% sodium bicarbonate and wash them before reuse.
Ingestion	: Get medical aid immediately. : If conscious and alert, rinse mouth and drink water.
Inhalation	: Remove from exposure and move to fresh air immediately. Keep him quiet and warm. : If breathing is difficult, give medical aid oxygen.
Notes to physician	: Treat symptomatically and supportively.

5.Fire Fighting Measures

General Information	: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH Strong (approved or equivalent), and full protective gear. : Water spray to keep fire-exposed containers cool.
Extinguishing Media	: Material is non-combustible



Flash Point	: Not applicable.
Autoignition Temperature	: Not applicable.
Explosion Limits-Lower	: Not available.
Explosion Limits-Upper	: Not available.

6. Accidental Release Measures

Wear respirators, chemical safety goggles, rubber gloves and boots. Evacuate area and keep Personnel upwind. Cover with dry lime or soda ash, pick up, keep in closed container and hold for waste disposal. Ventilate area and wash spill site. Prevent product from entering drains.

7. Handling and Storage

Keep container tightly closed and protected from physical damage. Use chlorinated vinyl chloride resins or polyethylene glass coated equipment. Keep container in a cool, well-ventilated area away from incompatible materials.

8. Exposure Controls/Personal Protect:

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.



Respiratory Protection	: Full face mask with acid gas canister.
Hand Protection	: Rubber Gloves
Skin Protection	: Wear protective gloves and clean body-covering clothing
Eye Protection	: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties.

Appearance	: Colourless to yellow colour liquid
pH	: < 1
Odour	: Acrid
Boiling Point	: 126°C
Melting Point	: -11°C
Solubility	: 194 g/100ml water @ 20°C
Upper or lower flammability limits	: No information available
Vapour threshold	: No information available
Odour threshold	: No information available
Vapour density	: 2.8
Flash point	: No information available
Evaporation Rate	: No information available
Flammability	: No information available
Partition Coefficient: n-Octanol/water	: Low Kow – 0.63- 1.03 (25°C)
Auto Ignition Temperature	: No information available
Decomposition Temperature	: No information available
Viscosity	: 0.84 cP

10. Stability and Reactivity

Stability	: Stable at normal conditions. Sensitive to air and light.
Conditions of Instability	: Not available



Hazardous Polymerization	: Will not occur
Incompatibilities	: Strong oxidizers and strong bases. Ammonia, ozone and fluorine.
Conditions to Avoid	: Avoid contact with metals.
Corrosivity	: Not available.
Decomposition products	: Hydrogen Bromide and Bromine.

11. Toxicological Information

Component Information

Component	LD50 Oral	LC50 Inhalation
Hydrobromic acid	238 mg/Kg (Rat)	9464.55 mg/m ³ (Rat)

CAS NO	10035-10-6
Carcinogenicity	No information available.
Epidemiology	No information available.
Teratogenicity	No information available.
Reproductive Effects	No information available.
Mutagenicity	No information available.
Neurotoxicity	No information available.
Aspiration Hazard	No information available.
Specific Target Organ Toxicity-single	Respiratory system.
Specific Target Organ Toxicity-Repeat	No information available.

Potential Health Effects

Skin	: Corrosive and skin burns
Ingestion	: Sore throat, abdominal pain and diarrhea.



Inhalation	: Corrosive to mucous membrane and respiratory tract
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12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposable Considerations

Add slowly to a large amount of soda ash and slaked lime solution while stirring and cooling. Remove to approved incinerator or landfill. Before disposing of empty drums wash them with 10% sodium bicarbonate solution.

14. Transport Information:

IMO	
Proper shipping name	: Hydrobromic acid
UN No.	: 1788
Class	: 8-Corrosive
Packaging group	: II
Marine Pollutant	: Nil
EMS	: F-A, S-B

IATA	
Proper shipping name	: Hydrobromic acid
UN No.	: 1788
Class	: 8-Corrosive
Packaging group	: II

DOT	
Proper shipping name	: Hydrobromic acid

UN No.	: 1788
Class	: 8-Corrosive
Packaging group	: II



15. Regulatory Information:

Federal and State Regulations:

TSCA 12(b) inventory: Hydrobromic acid

Other Regulations:

EINECS: This product is on the European inventory of Existing Commercial Chemical Substances.

Protective Equipment:

Gloves, Lab coat, Dust respirator. Be sure to use an approved/ certified respirator or equivalent and safety glasses.

16. Other Information

Version no : WCPL – HBr- SDS – 002

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