

Hydrobromic acid**244260-1L**

Version 1.3

Issuing date 07/21/2016

Revision Date 05/21/2020

Print Date 08/03/2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Hydrobromic acid

Number : 000000020203

Recommended use of the chemical and restrictions on use : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
Seelze, 30926

For further information, please contact: : 1-800-368-0050
+1-231-726-3171
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
: **In Japan: +(81)-345209637**
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Classification of the substance or mixture : Skin corrosion, Category 1A
Serious eye damage, Category 1
Specific target organ toxicity - single exposure, Category 3
Short-term (acute) aquatic hazard, Category 3

GHS Label elements, including precautionary statements

Symbol(s)



Signal word

: Danger

Hazard statements

: Causes severe skin burns and eye damage.
May cause respiratory irritation.

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Harmful to aquatic life.

Precautionary statements

: **Prevention:**

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : HBr

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Water	7732-18-5	52.00 %
Water		
Hydrogen bromide	10035-10-6	48.00 %
Hydrogen bromide		

Note: Substances Subject to be Notified Names

Note: Deleterious Substances - Cabinet Order

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4. FIRST AID MEASURES

- | | |
|----------------|--|
| General advice | : First aider needs to protect himself.
Immediately take off contaminated clothing and rinse body with plenty of water.
Show this safety data sheet to the doctor in attendance. |
| Inhalation | : Remove to fresh air.
Consult a physician. |
| Skin contact | : After contact with skin, wash immediately with plenty of water.
Take off immediately all contaminated clothing.
Call a physician immediately. |
| Eye contact | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Protect unharmed eye. |
| Ingestion | : Rinse mouth with water.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Call a physician immediately. |

5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Water spray
Foam
Carbon dioxide (CO ₂)
Dry powder |
| Specific hazards during firefighting | : Fire may cause evolution of:
Hydrogen bromide
Bromine compounds
Heating will cause pressure rise with risk of bursting
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus and protective suit.
No unprotected exposed skin areas. |
| Further information | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
The product itself does not burn. |

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6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions,
protective equipment and
emergency procedures | : Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Wear personal protective equipment. Unprotected persons
must be kept away.
Do not breathe vapours, mist or gas.
Do not get in eyes, on skin, or on clothing. |
| Environmental precautions | : Suppress (knock down) gases/vapours/mists with a water
spray jet.
Do not let product enter drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.
Clean contaminated floors and objects thoroughly while
observing environmental regulations. |
| Methods and materials for
containment and cleaning up | : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.
Clean contaminated surface thoroughly. |

7. HANDLING AND STORAGE**Handling**

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Wear personal protective equipment.
Use only with adequate ventilation.
Use only acid resistant equipment.
Always have on hand a first-aid kit, together with proper
instructions.
Plan first aid action before beginning work with this product. |
|-------------------------------|--|

- | | |
|--|---|
| Advice on protection against
fire and explosion | : Normal measures for preventive fire protection. |
|--|---|

Storage

- | | |
|--|---|
| Conditions for safe storage,
including any
incompatibilities | : Keep containers tightly closed in a dry, cool and well-
ventilated place.
Store in original container.
Protect from physical damage.
Store away from incompatible substances. |
| Advice on common storage | : Keep away from oxidizing agents, strongly alkaline and
strongly acid materials in order to avoid exothermic reactions. |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

- | | |
|--------------------------|---|
| Respiratory protection | : In the case of vapour formation use a respirator with an approved filter. |
| Hand protection | : Impervious gloves
Gloves must be inspected prior to use.
Replace when worn. |
| Eye protection | : Safety goggles |
| Skin and body protection | : acid-proof protective clothing |
| Hygiene measures | : Take off all contaminated clothing immediately.
Remove and wash contaminated clothing before re-use.
Keep working clothes separately.
Separate rooms are required for washing, showering and changing clothes.
Wash hands before breaks and at the end of workday.
When using do not eat or drink. |
| Protective measures | : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.
Do not get in eyes, on skin, or on clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|----------------|----------------|
| Physical state | : liquid |
| Colour | : light yellow |
| Odour | : stinging |
| pH | : Note: acidic |

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Melting point/range	: ca. -11 °C
Boiling point/boiling range	: 126 °C at 1,013 hPa
Flash point	: Note: Not applicable
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: 60 hPa at 50 °C(122 °F)
Density	: ca. 1.490 g/cm ³ at 20 °C
Water solubility	: Note: completely miscible
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: Not applicable
Decomposition temperature	: Note: No decomposition if used as directed.
Molecular weight	: 80.91 g/mol

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Gives off hydrogen by reaction with metals. Hazardous polymerisation does not occur.

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Conditions to avoid : Protect from heat/overheating.

Incompatible materials to avoid : Incompatible with oxidizing agents.

Hazardous decomposition products : Hydrogen bromide
Bromine compounds

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Note: Toxicity is determined by the corrosivity of the product.

Acute inhalation toxicity : Note: Toxicity is determined by the corrosivity of the product.

Acute dermal toxicity : Note: Toxicity is determined by the corrosivity of the product.

Skin irritation : Result: Corrosive

Eye irritation : Result: Corrosive

Sensitisation : Note: no data available

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : static test
EC50: 19 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: EEC 92/69/V, C2

Toxicity to algae : Biomass
EC50: 56 mg/l

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Exposure time: 72 h

Species: *Pseudokirchneriella subcapitata* (green algae)

Method: 92/69/EEC, C.3

: Growth rate

EC50: 56 mg/l

Exposure time: 130 h

Species: *Pseudokirchneriella subcapitata* (green algae)

Method: 92/69/EEC, C.3

Toxicity to bacteria

: Note: no data available

Persistence and degradability

Biodegradability

: Note: The methods for determining the biological degradability are not applicable to inorganic substances.

Ecotoxicology Assessment

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

13. DISPOSAL CONSIDERATIONS

Disposal methods

: In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

UN/ID No.

: UN 1788

Description of the goods

: HYDROBROMIC ACID

Class

: 8

Packing group

: II

Classification Code

: C1

Hazard Identification Number

: 80

Labels

: 8

IATA

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UN/ID No. : UN 1788
Description of the goods : Hydrobromic acid
Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851
Packing instruction (passenger aircraft) : Y840

IMDG

UN/ID No. : UN 1788
Description of the goods : HYDROBROMIC ACID
Class : 8
Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B

Marine pollutant : no

15. REGULATORY INFORMATION**National regulatory information**

Vessel Safety Law : Corrosive substances (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)
JP VSL

Aviation Law : Corrosive substances (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)
JP AVL

Fire Service Law : Not relevant

Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018) : Listed
Hydrogen bromide 10035-10-6

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Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2, Enforcement Rule Art. 34-2 and 34-2-2), as amended : Listed
Hydrogen bromide 10035-10-6

Poisonous and Deleterious Substances Control Law : Deleterious substance not for pharmaceutical use
88
Listed
Hydrogen bromide 10035-10-6

Other international regulations**Notification status**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

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16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 2	
Instability	:	0

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 11/07/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group