

## 244260-500ML

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 : 00000020203

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 : Skin corrosion, Category 1A 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 (CO2)

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/cm3 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 : 855

aircraft)

Packing instruction : 851

(passenger aircraft)

Packing instruction : Y840

(passenger aircraft)

**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

JP VSL storage of dangerous goods and its Attached Table 1)

Aviation Law : Corrosive substances (Article 194 of The Enforcement Rules of

JP AVL Aviation Law and its Attached Table 1)

Fire Service Law : Not relevant

Japan. ISHL Hazardous : Listed Substances Labeling Hydrog Requirements (ISHL Art. 57,

Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6

April 2018)

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

Poisonous and Deleterious

Substances Control Law

: Listed

Hydrogen bromide 10035-10-6

: 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

: 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
 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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group