

Potassium bisulfate**31260-25KG**

Version 1.3

Issuing date

Revision Date 03/24/2020

Print Date 06/05/2023

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

Trade name : Potassium bisulfate

Number : 000000020777

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 1B
Serious eye damage, Category 1
Specific target organ toxicity - single exposure, 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.

Precautionary statements

: **Prevention:**

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Do not breathe dust or mist.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
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 INGREDIENTSFormula : KHSO₄

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Potassium hydrogen sulfate	7646-93-7	100.00 %
Potassium hydrogen sulfate		

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.
Move out of dangerous area.
Take off immediately all contaminated clothing.

Inhalation : If inhaled, remove to fresh air.
Call a physician if irritation develops or persists.

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|--------------|--|
| Skin contact | : After contact with skin, wash immediately with plenty of water.
If symptoms persist, call a physician. |
| Eye contact | : Rinse thoroughly with plenty of water, also under the eyelids.
Protect unharmed eye.
If eye irritation persists, consult a specialist. |
| Ingestion | : When swallowed, allow water to be drunk.
Do NOT induce vomiting.
Call a physician immediately. |

5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | : Water spray
Foam
Carbon dioxide (CO ₂)
Dry powder |
| Specific hazards during firefighting | : The product itself does not burn.
Fire may cause evolution of:
Sulphur oxides |
| Special protective equipment for firefighters | : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear. |
| Further information | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Evacuate personnel to safe areas.
Wear personal protective equipment. Unprotected persons must be kept away.
Ensure adequate ventilation.
Avoid dust formation.
Do not get in eyes, on skin, or on clothing. |
| Environmental precautions | : Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : Use mechanical handling equipment.
Sweep up and shovel into suitable containers for disposal.
Dispose of in accordance with local regulations. |

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7. HANDLING AND STORAGE**Handling**

Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Do not breathe dust.
Do not get in eyes, on skin, or on clothing.

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

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.

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 case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit

Hygiene measures : Take off all contaminated clothing immediately.
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 dust.

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Do not get in eyes, on skin, or on clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Colour	: colourless
Odour	: odourless
pH	: Note: acidic
Melting point/range	: ca. 200 °C
	: Note: no data available
Flash point	: Note: Not applicable
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapour pressure	: Note: no data available
Density	: ca. 2.36 g/cm ³ at 20 °C
Water solubility	: 514.0 g/l at 20 °C
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: Not applicable

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Decomposition temperature : Note: Stable under recommended storage conditions.

Molecular weight : 136.17 g/mol

Bulk density : ca. 1,000 kg/m³

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Exposure to moisture
To avoid thermal decomposition, do not overheat.

Incompatible materials to avoid : Strong oxidizing agents
Strong bases
Alcohols

Hazardous decomposition products : Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 2,000 mg/kg
Species: Rat, female
Method: OECD Test Guideline 423
Note: REACH dossier "read-across"

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : Note: no data available

Skin irritation : Note: Classification based on Annex VI of regulation 1272/2008/EC.

Eye irritation : Species: Rabbit
Result: Severe eye irritation
Method: OECD Test Guideline 405
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Note: REACH dossier "read-across"

Sensitisation : Species: Guinea pig
Result: non-sensitizing
Note: REACH dossier "read-across"

Genotoxicity in vitro : Test Method: Ames test
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Note: REACH dossier "read-across"

Further information : Note: Causes burns. May cause respiratory irritation.

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : > 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Note: REACH dossier "read-across"

Toxicity to algae : Note: no data available

Persistence and degradability

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS

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Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**UN/ID No. : UN 2509
Description of the goods : POTASSIUM HYDROGEN SULPHATEClass : 8
Packing group : II
Classification Code : C2
Hazard Identification Number : 80
Labels : 8**IATA**UN/ID No. : UN 2509
Description of the goods : Potassium hydrogen sulphate
Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo aircraft) : 863
Packing instruction (passenger aircraft) : 859
Packing instruction (passenger aircraft) : Y844**IMDG**UN/ID No. : UN 2509
Description of the goods : POTASSIUM HYDROGEN SULPHATE
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 VSLAviation Law : Corrosive substances (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)
JP AVL

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Fire Service Law : Not relevant

Poisonous and Deleterious
Substances Control Law : Not relevant**Other international regulations****Notification status**US. Toxic Substances
Control Act : On TSCA InventoryAustralia. Industrial Chemical
(Notification and
Assessment) Act : On the inventory, or in compliance with the inventoryCanada. 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 inventoryPhilippines. The Toxic
Substances and Hazardous
and Nuclear Waste Control
Act : On the inventory, or in compliance with the inventoryChina. Inventory of Existing
Chemical Substances
(IECSC) : On the inventory, or in compliance with the inventoryNew Zealand. Inventory of
Chemicals (NZIoC), as
published by ERMA New
Zealand : On the inventory, or in compliance with the inventory**16. OTHER INFORMATION**

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

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