

Potassium sulfate**12658-6X1KG**

Version 1.1

Revision Date 10/18/2021

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : Potassium sulfate

Number : 000000020914

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 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**
:
: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Form : solid

Color : colourless

Odor : odourless

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Hazards not otherwise : Repeated or prolonged exposure may irritate eyes, skin and

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classified

respiratory system.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTSFormula : K₂SO₄

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Potassium sulfate	7778-80-5	100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Skin contact : Wash off immediately with plenty of water.

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion : Immediately give large quantities of water to drink. If accidentally swallowed obtain immediate medical attention.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Potassium oxide
Sulphur oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 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.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Should not be released into the environment.
- 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.

SECTION 7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.

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Avoid inhalation, ingestion and contact with skin and eyes.

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

Eye protection : Safety glasses with side-shields

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

Skin and body protection : Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	: solid
Color	: colourless
Odor	: odourless
Odor threshold	: Note: No data available
pH	: 6.0 - 7.5 at , 20 °C
Melting point/range	: 1,067 °C
Boiling point/boiling range	: 1,698 °C at 1,013 hPa
Flash point	: Note: Not applicable
Evaporation rate	: Note: No data available
Flammability	: The product is not flammable.
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: No data available
Vapor density	: Note: No data available
Density	: ca. 2.66 g/cm ³ at 20 °C
Water solubility	: 111 g/l at 20 °C

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Partition coefficient:
n-octanol/water : Note: No data available

Ignition temperature : Note: Not applicable

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 174.26 g/mol

Bulk density : ca. 2,000 kg/m³

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous
reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Avoid dust formation.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition
products : In case of fire hazardous decomposition products may be
produced such as:
Potassium oxide
Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
Potassium sulfate : LD50: 6,600 mg/kg

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Species: Rat

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 402
Note: No deaths

Skin irritation : Species: reconstructed human epidermis (RhE)
Result: non-irritant
Method: in vitro skin corrosion test

Eye irritation : Species: Rabbit
Result: slight irritation
Method: OECD Test Guideline 405

Sensitisation : Note: No data available

Repeated dose toxicity : Species: Rat, male and female
Application Route: Oral
Exposure time: 28 d
NOAEL (No observed adverse effect level): 1500 mg/kg/d
Note: No histopathological effects were noted.

Reproductive toxicity : Species: Rat, male and female
Application Route: Oral
Note: No toxicity to reproduction

Teratogenicity : Species: Rat, male and female
Application Route: Oral
Note: Did not show teratogenic effects in animal experiments.

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	: static test LC50: 3,550 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish)
	: static test LC50: 680 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	: static test EC50: 720 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	: EC50: 2,900 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus (green algae)

Further information on ecology**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods	: Observe all Federal, State, and Local Environmental regulations.
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SECTION 14. TRANSPORT INFORMATION**DOT** Not dangerous goods**TDG** Not dangerous goods

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IATA Not dangerous goods**IMDG** Not dangerous goods**SECTION 15. REGULATORY INFORMATION****Inventories**US. Toxic Substances : On TSCA Inventory
Control ActAustralia. Industrial : On the inventory, or in compliance with the inventory
Chemicals Act (AIC), as
amendedCanada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

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

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory
Inventory (KECI)Philippines. Inventory of : On the inventory, or in compliance with the inventory
Chemicals and Chemical
Substances (PICCS)China. Inventory of Existing : On the inventory, or in compliance with the inventory
Chemical Substances
(IECSC)New Zealand. Inventory of : On the inventory, or in compliance with the inventory
Chemicals (NZIoC), as
published by ERMA New
Zealand**National regulatory information****SARA 302 Components** : No chemicals in this material are subject to the reporting
requirements of SARA Title III, Section 302.

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- SARA 313 Components** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards** : No SARA Hazards
- California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
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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