

**Potassium chloride****05257-100G**

Version 1.1

Revision Date 08/03/2021

Print Date 05/29/2023

**SECTION 1. IDENTIFICATION**

Product name : Potassium chloride

Number : 000000020254

Product Use Description : Laboratory chemicals

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

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.

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

Formula : KCl

Chemical nature : Substance

| Chemical name      | CAS-No.   | Concentration |
|--------------------|-----------|---------------|
| Potassium chloride | 7447-40-7 | <=100.00 %    |

**SECTION 4. FIRST AID MEASURES**

General advice : Immediately take off contaminated clothing and rinse body with plenty of water. Move out of dangerous area.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

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. Call a physician immediately.

**Notes to physician**

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

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

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Specific hazards during firefighting : The product itself does not burn.

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.

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

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Dispose of in accordance with local regulations.

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**SECTION 7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid breathing dust.  
Avoid contact with skin, eyes and 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.

**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.

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 : Lightweight protective clothing

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

Hygiene measures : When using, do not eat, drink or smoke.  
Handle in accordance with good industrial hygiene and safety practice.

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**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Physical state              | : solid                                           |
| Color                       | : colourless                                      |
| Odor                        | : odourless                                       |
| Odor threshold              | : Note: No data available                         |
| pH                          | : 5 - 8 at , 20 °C<br>Note: (as aqueous solution) |
| Melting point/range         | : 772 °C                                          |
| Boiling point/boiling range | : 1,413 °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: Not applicable                            |

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Density : ca. 2 g/cm<sup>3</sup> at 20 °C

Water solubility : 347 g/l at 20 °C

567 g/l at 100 °C

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

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: Not applicable

Viscosity, kinematic : Note: Not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : 74.55 g/mol

Bulk density : ca. 800 - 1,000 kg/m<sup>3</sup>**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous  
reactions : Hazardous polymerisation does not occur.

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Conditions to avoid : Protect from moisture.

Incompatible materials : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 3,020 mg/kg  
Species: Rat, female

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Species: Rabbit  
Result: No skin irritation

Eye irritation : Note: Not classified due to data which are conclusive although insufficient for classification.

Sensitisation : Note: No data available

Repeated dose toxicity : Species: Rat, male  
Application Route: Oral  
Exposure time: 17,520 h  
NOAEL: 1820 mg/kg bw/d

: Species: Rat, male  
Application Route: Oral  
Exposure time: 17,520 h  
LOAEL: 110 mg/kg bw/d

Genotoxicity in vitro : Test Method: Chromosome aberration test in vitro

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Cell type: Chinese Hamster Lung Cells  
Metabolic activation: without metabolic activation  
Result: positive  
Method: OECD Test Guideline 473

Teratogenicity : Species: Rat, female  
Application Route: Oral  
NOAEL, Maternal: 310 mg/kg bw/d

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish : static test  
LC50: 880 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : static test  
EC50: 660 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

: static test  
EC50: 630 mg/l  
Exposure time: 48 h  
Species: Ceriodaphnia dubia (water flea)  
Method: OECD Test Guideline 202

Toxicity to algae : static test  
EC50: > 100 mg/l  
Exposure time: 72 h  
Species: Desmodesmus subspicatus (green algae)  
Method: OECD Test Guideline 201

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Toxicity to bacteria : static test  
> 1,000 mg/l  
Exposure time: 3 h  
Species: activated sludge  
Method: OECD 209

**Elimination information (persistence and degradability)**

Biodegradability : Note: Not applicable

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

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

**SECTION 15. REGULATORY INFORMATION****Inventories**

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 : All components of this product are on the Canadian DSL

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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.

**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** : Acute Health Hazard

**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.

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**SECTION 16. OTHER INFORMATION**

|                 | <b>HMIS III</b> | <b>NFPA</b> |
|-----------------|-----------------|-------------|
| 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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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group