

# Safety Data Sheet

acc. to OSHA and ANSI

Printing date 07/31/2017

version 6

Reviewed on 07/31/2017

## 1 Identification

- **Product identifier**
- **Trade name:** Potassium chloride >95%
- **Synonyms** Silvine, sylvite, muriate of potash (MOP), potash, Ferti-K, STD MOP, GMOP
- **CAS Number:**  
7447-40-7
- **EC number:**  
231-211-8
- **Application of the substance / the mixture**  
Fertilizer  
Formulation additive  
Catalysts  
Food additives  
Auxiliary  
No uses advised against
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Dead Sea Works Ltd  
Potash House, P.O. Box 75  
Beer Sheva, 84100  
ISRAEL  
Telephone: +972-8-6465347  
Fax: +972-8-6280533  
E-mail: [www.dswsalts.com](http://www.dswsalts.com)
- **Emergency telephone number:** CHEMTREC : 1-800-424-9300 (24-hour emergency phone number)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The substance is not classified according to the Globally Harmonized System (GHS).
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Hazard description:**
- **WHMIS-symbols:** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
7447-40-7 potassium chloride >95%
- **Identification number(s)**
- **EC number: 231-211-8**

### 4 First-aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Generally the product does not irritate the skin.  
Rinse with warm water.  
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.  
**NOTE:** Never give an unconscious person anything to drink.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Hydrogen chloride (HCl)  
Chlorine  
Toxic metal oxide smoke
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.

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· **Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.
- **Information about protection against explosions and fires:**  
No special measures required.  
The product is not flammable.
- **Requirements to be met by storerooms and receptacles:**  
Store in dry conditions.  
Protect from humidity and water.  
Protect from heat and direct sunlight.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Store away from water.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:**  
Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m<sup>3</sup>, respirable particles, and 10 mg/m<sup>3</sup>, inhalable particles [ACGIH recommendation for Particles (Insoluble or poorly soluble). Not Otherwise Specified (PNOS)]
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not eat or drink while working.
- **Breathing equipment:**  
Use suitable respiratory protective device in case of insufficient ventilation.



Filter P2

- **Protection of hands:**



Protective gloves

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Safety glasses

· **Body protection:** Light weight protective clothing

· **Limitation and supervision of exposure into the environment**

Based on all data available this product is not considered to pose a risk to the environment.

### 9 Physical and chemical properties

· **Appearance:**

**Form:** Solid

**Color:** White

Pink

· **Odor:**

Odorless

· **pH-value:**

Neutral

· **Change in condition**

**Melting point/Melting range:** 772 °C (1422 °F)

**Boiling point/Boiling range:** 1500 °C (2732 °F) (sublimation)

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Product is not flammable.  
(based on molecular structure)

· **Ignition temperature:**

Not applicable

· **Danger of explosion:**

Product does not present an explosion hazard.  
(based on molecular structure)

· **Explosion limits:**

**Oxidizing properties** None

The substance does not contain any groups associated with oxidising properties.

· **Vapor pressure:**

Not determined

· **Density at 20 °C (68 °F):**

1.987 g/cm<sup>3</sup> (16.582 lbs/gal)

· **Solubility in / Miscibility with**

**Water at 20 °C (68 °F):** 330 g/l

· **Partition coefficient (n-octanol/water):** Not applicable

This substance is inorganic chemical.

· **Viscosity:**

Not applicable

This product is solid. Viscosity is only relevant to liquids.

· **Other information**

No further relevant information available.

### 10 Stability and reactivity

· **Reactivity** No decomposition if used according to specifications.

· **Chemical stability** No decomposition if used and stored according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid**  
To avoid thermal decomposition do not overheat.  
Water
- **Incompatible materials:** Oxidizing agents
- **Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.  
Hydrogen chloride (HCl)  
Chlorine  
Toxic metal oxide smoke
- **Additional information:** This product is hygroscopic.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7447-40-7 Potassium chloride

Oral	LD50	3020 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
The substance is not subject to classification.
- **Repeated dose toxicity** no classification is necessary
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
NTP (National Toxicology Program) : Substance is not listed  
IARC (International Agency for Research on Cancer) : Substance is not listed
- **Mutagenicity:** None
- **Carcinogenicity:**  
no data available  
(no carcinogenicity study needs to be performed as this substance is not genotoxic)
- **Toxicity for reproduction:** no classification is necessary

### 12 Ecological information

- **Toxicity**

· **Aquatic toxicity:**

7447-40-7 Potassium chloride

EC50/120 h	1337 mg/l (algae)
EC50/21 d	130 mg/l (Daphnia magna)
EC50/48 h	660 mg/L (Daphnia magna)
LC50/96 h	880 mg/L (Fathead minnow fish)

- **Persistence and degradability** The substance is inorganic; therefore no biodegradation tests are applicable.
- **Bioaccumulative potential**  
Does not accumulate in organisms

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*This substance is highly water soluble and dissociating.*

**· Mobility in soil**

*Low potential for adsorption (based on substance properties).*

*This substance is highly water soluble and dissociating.*

**· Other information:**

*The product should not get in high quantities into waste water because it may act as a plant nutrient and cause eutrophication.*

**· General notes:**

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

**· Results of PBT and vPvB assessment**

**· PBT:** *No assessment is required for inorganic substances.*

**· vPvB:** *No assessment is required for inorganic substances.*

**· Other adverse effects** *No further relevant information available.*

### 13 Disposal considerations

**· Waste treatment methods**

**· Recommendation:** *Disposal must be made in accordance with Local Authority requirements.*

**· Uncleaned packagings:**

**· Recommendation:** *Disposal must be made in accordance with Local Authority requirements.*

**· Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

### 14 Transport information

**· UN-Number**

*Not applicable*

**· UN proper shipping name**

*Not applicable*

**· Transport hazard class(es)**

**· DOT, ADR, ADN, IMDG, IATA**

**· Class**

*Void*

**· Packing group**

*Not applicable*

**· Environmental hazards:**

*Not applicable.*

**· Special precautions for user**

*Not applicable.*

**· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

*Not applicable.*

**· UN "Model Regulation":**

*Void*

### 15 Regulatory information

**· Sara**

**· Section 355 (extremely hazardous substances):** *Substance is not listed.*

**· Section 313 (Specific toxic chemical listings):** *Substance is not listed.*

**· TSCA (Toxic Substances Control Act):** *Substance is listed.*

**· Proposition 65**

**· Chemicals known to cause cancer:** *Substance is not listed.*

**· Chemicals known to cause reproductive toxicity for females:** *Substance is not listed.*

**· Chemicals known to cause reproductive toxicity for males:** *Substance is not listed.*

**· Chemicals known to cause developmental toxicity:** *Substance is not listed.*

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- **Cancerogenity categories**
- **EPA (Environmental Protection Agency)** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL)** Substance is listed.
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Registration status (Chemical Inventories listing) :**
- United States (TSCA) : listed
- Canada (DSL) : listed
- Australia (AICS) : listed
- Japan (ENCS) : listed
- Korea (KECI) : listed
- Philippines (PICCS) : listed
- China (IECSC) : listed

### 16 Other information

- **Department issuing SDS:** Regulatory Affairs of ICL Fertilizers Products
- **Date of preparation / last revision** 07/31/2017
- **\* Data compared to the previous version altered.**  
Reason for revision: company logo change  
The sections where alterations took place are marked with an asterisk in the left border.
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