

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 05.04.2011

8676DSW version 4

Revision: 05.04.2011

**1 Identification of the substance/mixture and of the company/undertaking**

· **Product identifier**

· **Trade name:** **Potassium Chloride**

· **Synonyms** Silvine, sylvite, muriate of potash (MOP), potash, Ferti-K, STD MOP, GMOP

· **CAS Number:**

7447-40-7

· **EINECS Number:**

231-211-8

· **Registration number**

*This product is exempted from the obligation to register in accordance to Reg. (EC) 1907/2006 ( natural mineral not modified chemically).*

· **Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses:

Fertilizer

Formulation additive

Food additives

Catalysts

Auxiliary

No uses advised against.

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Manufacturer:

Dead Sea Works Ltd

Potash House, P.O. Box 75

Beer Sheva, 84100

ISRAEL

· **Further information obtainable from:**

Non-emergency telephone: +972-8-6465347

Fax: +972-8-6280533

E-mail: [www.dswsalts.com](http://www.dswsalts.com)

Non-emergency telephone: +31-205-815132

E-mail: [sluis@iclfertilizers.eu](mailto:sluis@iclfertilizers.eu)

· **Emergency telephone number:** In Europe call: +31-20-5815100 (24 hours a day, 365 days a year)

**2 Hazards identification**

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

*The substance is not classified according to the CLP regulation.*

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

None

Void

· **Information concerning particular hazards for human and environment:**

*No hazards to be particularly mentioned.*

· **Classification system:**

*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

· **Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Substances**
- **CAS No. Description**  
7447-40-7 potassium chloride >95%
- **EINECS Number:** 231-211-8
- **SVHC** None

**4 First aid measures**

- **Description of 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.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
The product is not flammable.  
Use fire extinguishing methods suitable to surrounding conditions.
- **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
- **Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

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**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.
- **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 fire - and explosion protection:**  
No special measures required.  
The product is not flammable.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **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.

**8 Exposure controls/personal protection**

- **Additional information about design of technical facilities:**  
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)]
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **DNELs** Not applicable
- **PNECs** Not applicable
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
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.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

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· **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.

· **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.

· **Risk management measures**

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

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Solid  
**Colour:** White  
Pink

· **Odour:** Odourless

· **pH-value:** Neutral

· **Change in condition**

**Melting point/Melting range:** 772°C  
**Boiling point/Boiling range:** 1500°C (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.

· **Vapour pressure:** Not determined

· **Density at 20°C:** 1,987 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 330 g/l

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- **Segregation coefficient (n-octanol/water):** Not applicable  
This substance is inorganic chemical.
- **Viscosity:** Not applicable  
This product is solid. Viscosity is only relevant to liquids.

### 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**  $\text{BrF}_3$ ,  $\text{KMnO}_4$  + sulphuric acid.
- **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 relevant for classification:**

Oral	LD50	3020 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Not available
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.  
The substance is not subject to classification according to the latest version of the EU lists.
- **Repeated dose toxicity** no classification is necessary
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
IARC (International Agency for Research on Cancer) : Substance is not listed  
NTP (National Toxicology Program) : 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

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**12 Ecological information**· **Toxicity**· **Acquatic toxicity:**

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

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:**

Product should not get in higher quantities into waste water because it may act as a plant nutrient and cause eutrophication.

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

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.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation** Disposal must be made in accordance with Local Authority requirements.· **Uncleaned packaging:**· **Recommendation:** Disposal must be made in accordance with Local Authority requirements.· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.**14 Transport information**· **DOT regulations:**· **Hazard class:** None· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** -  
None· **Maritime transport IMDG:**· **IMDG Class:** None· **Marine pollutant:** No· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** None· **UN "Model Regulation":** -· **Environmental hazards:** Not applicable.

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· **Special precautions for user** Not applicable.

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**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** 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 (ECL) : listed
  - Philippines (PICCS) : listed
  - China (IECSC) : listed
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

- **Department issuing MSDS:** EHS UNIT in ISRAEL
- **Contact:**
  - Dr.J.Lati
  - Tel. : +972-8-6465-341
  - Fax. : +972-8-6465-342
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- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
- **\* Data compared to the previous version altered.**
  - Reason for revision: Compliance with Reg. 453/2010 EC, amending Reg. 1907/2006 EC.
  - The sections where alterations took place are marked with an asterisk in the left border
- **Disclaimer**

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