

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** potassium chloride

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

· **CAS Number:**

7447-40-7

· **EC number:**

231-211-8

· **Registration number**

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

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

Relevant identified uses:

Fertiliser

Formulation additive

Food additives

Catalysts

Auxiliary

No uses advised against.

· **1.3 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: msdsinfo@icl-group.com

ICL Italy S.r.l. Milano

Via Monteverdi 11, 20131, Milano,

Italy

Phone: +39-02-20487221

Fax: +39-02-2049449

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

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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

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

· **2.2 Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **2.3 Other hazards**

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

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(Contd. on page 2)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: *potassium chloride*

· **vPvB:** Not applicable.

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- **3 Substances**
- **CAS No. Description**
7447-40-7 potassium chloride >95%
- **EC number:** 231-211-8
- **SVHC** None

SECTION 4: First aid measures

- **4.1 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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 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
- **5.2 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 (K_2O)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Mount respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Use respiratory protective device against the effects of fumes/dust/aerosol.

(Contd. on page 3)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: *potassium chloride*

(Contd. of page 2)

Wear protective clothing.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections** No dangerous substances are released.

SECTION 7: Handling and storage

· **7.1 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.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **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 oxidising agents.
Store away from water.

· **Further information about storage conditions:** None.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

· **DNELs** Not applicable

· **PNECs** Not applicable

· **Additional information:**

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles [ACGIH recommendation for Particles (Insoluble or poorly soluble). Not Otherwise Specified (PNOS)]

· **8.2 Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
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.



Filter P2

(Contd. on page 4)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: potassium chloride

(Contd. of page 3)

· **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. (EN 374)

· **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.

SECTION 9: Physical and chemical properties

· **9.1 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/freezing point: 772 °C

Initial boiling point and boiling range: 1500 °C (sublimation)

· **Flash point:**

Not applicable.

· **Flammability (solid, gas):**

Product is not flammable.
(based on molecular structure)

· **Ignition temperature:**

Not applicable

· **Explosive properties:**

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

· **Explosion limits:**

Oxidising properties None

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

· **Vapour pressure:**

Not determined

· **Density at 20 °C:**

1.987 g/cm³

(Contd. on page 5)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: *potassium chloride*

(Contd. of page 4)

- **Solubility in / Miscibility with water at 20 °C:** 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.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** BrF_3 , KMnO_4 + sulphuric acid.
- **10.4 Conditions to avoid**
To avoid thermal decomposition do not overheat.
Water
- **10.5 Incompatible materials:** Oxidizing agents
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Hydrogen chloride (HCl)
Chlorine
Toxic metal oxide smoke (K_2O)
- **Additional information:** This product is hygroscopic.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
- | | | |
|--|------|------------------|
| · LD/LC50 values relevant for classification: | | |
| 7447-40-7 Potassium chloride | | |
| Oral | LD50 | 3020 mg/kg (rat) |
- **Primary irritant effect:**
 - **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
 - **Respiratory or skin sensitisation** No data available.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity:**
no data available
(no carcinogenicity study needs to be performed as this substance is not genotoxic)
IARC (International Agency for Research on Cancer) : Substance is not listed
NTP (National Toxicology Program) : Substance is not listed
 - **Toxicity for reproduction:** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** No data available

(Contd. on page 6)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: potassium chloride

(Contd. of page 5)

SECTION 12: Ecological information

· **12.1 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)

· **12.2 Persistence and degradability** The substance is inorganic; therefore no biodegradation tests are applicable.

· **12.3 Bioaccumulative potential**

Does not accumulate in organisms

This substance is highly water soluble and dissociating.

· **12.4 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:**

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.

· **12.5 Results of PBT and vPvB assessment**

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

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

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

SECTION 13: Disposal considerations

· **13.1 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.

SECTION 14: Transport information

· **14.1 UN-Number**

· DOT, ADR, ADN, IMDG, IATA Void

· **14.2 UN proper shipping name**

· DOT, ADR, ADN, IMDG, IATA Void

· **14.3 Transport hazard class(es)**

· DOT, ADR, ADN, IMDG, IATA

· Class Void

· **14.4 Packing group**

· DOT, ADR, IMDG, IATA Void

· **14.5 Environmental hazards:** Not applicable.

(Contd. on page 7)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: *potassium chloride*

- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
- UN "Model Regulation": Void

(Contd. of page 6)

SECTION 15: Regulatory information

- 15.1 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
 - Taiwan (TCSI): listed
 - New Zealand (NZIoC) : listed
 - Canada (DSL) : listed
 - Australia (AICS) : listed
 - Japan (ENCS) : listed
 - Korea (KECI) : listed
 - Philippines (PICCS) : listed
 - China (IECSC) : listed
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Department issuing SDS:
 - HERA Division
 - telephone: +/972-8-6297835
 - telefax: +/972-8-6297832
 - e-mail: msdsinfo@icl-group.com
- Abbreviations and acronyms:
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised 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
 - PBT: Persistent, Bioaccumulative and Toxic
 - SVHC: Substances of Very High Concern
 - vPvB: very Persistent and very Bioaccumulative

* **Data compared to the previous version altered.**

The sections where alterations took place are marked with an asterisk in the left border.

· **Disclaimer**

Although the information and recommendations set forth herein (hereinafter ""information"") are presented in good faith and believed to be correct as of the date hereof, we make no representations as to the completeness or accuracy thereof.

(Contd. on page 8)

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

Printing date 25.04.2018

version 6

Revision: 25.04.2018

Trade name: potassium chloride

(Contd. of page 7)

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