

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.07.2016

version 1

Revision: 24.07.2016

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

- **1.1 Product identifier**
- **Trade name:** PotashpluS
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Relevant identified uses:
 Fertiliser
 No uses advised against.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Cleveland Potash Limited
 Boulby Mine
 Loftus
 Saltburn by the Sea
 Cleveland TS13 4UZ
 Telephone +44 (0) 1287 640 140
 Fax +44(0) 640 934
 Registered in England No GB 915392
- **Further information obtainable from:**
 Non-emergency telephone: +31-205-815132
 E-mail: Richard.vanderSluis@icl-group.com
- **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 product 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**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture: consisting of the following components.

· **Components:**

CAS: 7447-40-7 EINECS: 231-211-8	Potassium chloride	<70%
CAS: 15278-29-2	Polysulphate (Polyhalite)	<70%

Potassium chloride is exempted from the obligation to register in accordance with Reg. (EC)1907/2006 (natural mineral not modified chemically).

Polysulphate (Polyhalite) is exempted from the obligation to register in accordance with Reg. (EC)1907/2006 (natural mineral not modified chemically).

- **SVHC** None

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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:**
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.
NOTE: Never give an unconscious person anything to drink.
- **4.2 Most important symptoms and effects, both acute and delayed** Gastric or intestinal disorders
- **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:
Sulphur oxides (SO_x)
Toxic metal compounds (K₂O)
Hydrogen chloride (HCl)
Chlorine
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mount respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid formation of dust.
Use suitable respiratory protective device in case of insufficient ventilation.
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**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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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.

· **Information about storage in one common storage facility:** Not required.

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

· **Storage class:** Not applicable

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

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **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)]

The lists valid during the making were used as basis.

· **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.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **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: Grey

Grey -pink

· **Odour:** Odourless

· **Odour threshold:** Not determined.

· **pH-value:** Neutral

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable

This product is inorganic substance.

· **Flammability (solid, gaseous):** Product is not flammable.

· **Ignition temperature:**

Decomposition temperature: Thermal decomposition on losing water.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:** Not applicable

· **Oxidising properties** Not applicable

This product does not contain any oxidizing agents.

· **Vapour pressure:** Not applicable.

· **Bulk density at 20 °C:** 1,1-1,5 g/cm³

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with water:**

Soluble.

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- **Partition coefficient (n-octanol/water):** Not applicable
This substance is inorganic chemical.
- **Viscosity:** This product is solid. Viscosity is only relevant to liquids.
- **Organic solvents:** 0,0 %
- **Solids content:** 100,0 %
- **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.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** To avoid thermal decomposition do not overheat.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Sulphur oxides (SO_x)
Hydrogen chloride (HCl)
Chlorine
Toxic metal compounds (K₂O)

SECTION 11: Toxicological information

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

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

7447-40-7 Potassium chloride

Oral	LD50	3020 mg/kg (rat)
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- **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)
- **Toxicity for reproduction:** No data available
- **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

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

No reliable study with this product is present.

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

· **12.4 Mobility in soil** No further relevant information available.

· **Other information:**

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

· **General notes:**

According to the criteria of the EU-classification and labelling "dangerous for environment"(93/21/EWG) the substance/ the product has to be classified as non-hazardous for the environment.

· **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**

This product is used as fertiliser. However, large spills can kill vegetation. Prevent large quantities from entering waterways. If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

Smaller quantities can be disposed of with household waste.

Disposal must be made according to official regulations.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

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:**

· **Marine pollutant:** No

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- 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

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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 Not applicable
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Department issuing SDS: Regulatory Affairs of ICL Fertilizers Products
- 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)
 - 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
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - 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

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