

Safety Data Sheet

acc. to OSHA and ANSI

Printing date 08/09/2018

version 1

Reviewed on 08/09/2018

1 Identification

- **Product identifier**
- **Trade name:** PotashpluS
- **Application of the substance / the mixture** Fertilizer
- **Uses advised against** No uses advised against.
- **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
E-mail: msdsinfo@icl-group.com
Registered in England No GB 915392
- **Emergency telephone number:** CHEMTREC : 1-800-424-9300 (24-hour emergency phone number)

2 Hazard(s) identification

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



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



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

3 Composition/information on ingredients

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

· **components** :

CAS: 7447-40-7	Potassium chloride	<70%
RTECS: TS 8050000		

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CAS: 15278-29-2

Polysulphate

<70%

4 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.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Gastric or intestinal disorders
- **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:
Sulfur oxides (SO_x)
Toxic metal compounds
Hydrogen chloride (HCl)
Chlorine
- **Protective equipment:**
Mount respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

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

· **PAC-1:**

None of the ingredients is listed.

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· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

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.
- **Information about storage in one common storage facility:** Not required.
- **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:**
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)]
- **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.
Do not eat or drink while working.
Wash hands before breaks and at the end of work.
- **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. 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.

· **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

· **Appearance:**

Form: Solid

Color: Grey

Grey-white

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **pH-value:**

Neutral

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:**

This product is inorganic substance.

Not applicable

· **Flammability (solid, gaseous):**

Product is not flammable.

· **Decomposition temperature:**

Thermal decomposition on losing water.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

Not applicable

· **Oxidizing properties**

This product does not contain any oxidizing agents.

Not applicable

· **Vapor pressure:**

Not applicable.

· **Bulk density at 20 °C (68 °F):**

1.1-1.5 g/cm³ (9.1795-12.5175 lbs/gal)

· **Vapor density**

Not applicable.

· **Evaporation rate**

Not applicable.

· **Solubility in / Miscibility with**

Water: Soluble.

· **Partition coefficient (n-octanol/water):** This substance is inorganic chemical.

Not applicable

· **Viscosity:**

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

Not applicable

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- **Solvent content:**
- Organic solvents:** 0.0 %
- Solids content:** 100.0 %
- **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.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** To avoid thermal decomposition do not overheat.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Sulfur oxides (SO_x)
Hydrogen chloride (HCl)
Chlorine
Toxic metal compounds

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:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** No data available
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:**
No data available
Based on available data, the classification criteria are not met.
- **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.

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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.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** Low potential for bioaccumulation (based on substance properties)

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

· **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:**

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 packagings:**

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

14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA**

Void

· **UN proper shipping name**

· **ADR, IMDG, IATA**

Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**

· **Class**

Void

· **Packing group**

· **DOT, ADR, IMDG, IATA**

Void

· **Environmental hazards:**

· **Marine pollutant:**

No

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- **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):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

7447-40-7 | potassium chloride DSW

· **TSCA new (21st Century Act) (Substances not listed)**

15278-29-2 | Polysulphate

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** GHS label elements

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

16 Other information

· **Department issuing SDS:**

HERA Division

telephone: +/972-8-6297835

telefax: +/972-8-6297832

e-mail: msdsinfo@icl-group.com

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· **Date of preparation / last revision** 08/09/2018 / -

· **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

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· **Disclaimer**

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