



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 20-May-2020

Supersedes Date: 07-Aug-2019

Revision Number 3.2

1. Identification

1.1. Product identifier

Product Name	PotashpluS
Product Code(s)	5148
REACH registration number	This product is exempted from the obligation to register in accordance to Reg.(EC) 1907/2006 (natural mineral not modified chemically).
Pure substance/mixture	Mixture

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

Recommended use	Fertilizer
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1.3. Details of the supplier of the safety data sheet

Supplier

ICL Europe.
Prinsenhof Building Koningin Wilhelminaplein 30
1062 KR, Amsterdam, Netherlands
Tel: +31 20 800 5 867;
Fax: +31 20 800 5 805
e-mail: msdsinfo@icl-group.com

1.4. Emergency telephone number

Europe	+31-20-5815100 (24 hours a day, 365 days a year)
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2. Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.3. Other hazards

The product does not contain any substance(s) classified as PBT or vPvB

3. Composition/information on ingredients

3.1 Substances

Not Applicable

3.2 Mixtures**Component information**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	CAS No.	EC No.	Weight-%	Annex	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Polyhalite	15278-29-2	-	<70	-	-	-
potassium chloride	7447-40-7	231-211-8	<70	-	-	-

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Full text of H- and EUH-phrases: see section 16

4. First-aid measures**4.1. Description of first aid measures**

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately. NOTE: Never give an unconscious person anything to drink

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically and supportively.
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5. Fire-fighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	May emit toxic fumes under fire conditions.
Hazardous combustion products	Hydrogen chloride. Hazardous metal fumes and oxides. Oxides of sulfur. Chlorine gas.

5.3. Advice for firefighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid generation of dust. Ensure adequate ventilation. Wear protective gloves/protective clothing and eye/face protection.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid generation of dust. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety procedures. .

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific use(s) No specific requirements.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Chemical name	European Union	United Kingdom	France	Spain	Germany
Polyhalite 15278-29-2	-	-	-	-	-
potassium chloride 7447-40-7	-	-	-	-	-
Chemical name	ACGIH TLV	Italy	Portugal	Netherlands	Norway
Polyhalite 15278-29-2	-	-	-	-	-

potassium chloride 7447-40-7	-	-	-	-	-
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DNELs for workers

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Polyhalite 15278-29-2	-	-	-	-
potassium chloride 7447-40-7	-	-	-	-

DNELs for the general population

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Polyhalite 15278-29-2	-	-	-	-
potassium chloride 7447-40-7	-	-	-	-

Predicted No Effect Concentration (PNEC)

Chemical name	Water	Sediment	Soil	Impact on Sewage Treatment	Oral
Polyhalite 15278-29-2	-	-	-	-	-
potassium chloride 7447-40-7	-	-	-	-	-

8.2. Exposure controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Personal protective equipment**Eye/face protection**

Safety glasses.

Hand protection

Protective gloves, The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.
Filter P2

Skin and body protection

Lightweight protective clothing.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	granules
Color	Gray red
Odor	Odorless.

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	Neutral	
Melting point / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash point	-	Not Applicable
Evaporation rate	Not Applicable	
Flammability (solid, gas)	Not flammable	
Flammability Limit in Air		None known
Upper flammability or explosive limits	no data available	
Lower flammability or explosive limits	no data available	
Vapor pressure	Not Applicable	
Vapor density	Not Applicable	
Relative density	no data available	None known
Water solubility	Soluble	
Solubility(ies)	no data available	None known
Partition coefficient	Not Applicable (inorganic substance)	
Autoignition temperature	no data available	
Decomposition temperature	no data available	None known
Kinematic viscosity	Not Applicable	
Dynamic viscosity	Not Applicable	
Oxidizing properties	The structure indicates non oxidizing properties	
Explosive properties	Not explosive.	
9.2. Other information		
Fire point	No information available	
Softening point	No information available	
Molecular weight	No information available	
Bulk density	1.1-1.5 @ 20°C	

10. Stability and reactivity

10.1. Reactivity

No reactive hazards known/expected.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

Hydrogen chloride. Chlorine gas. Toxic or harmful metal oxides. Sulfur oxides.

11. Toxicological information

11.1. Information on toxicological effects

Product Information

Information on likely routes of exposure

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

Component information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Polyhalite	>5000 mg/kg (Rat)	-	-
potassium chloride	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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 sensitization No information available.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	European Union
Polyhalite 15278-29-2	-	-	-	-
potassium chloride 7447-40-7	-	-	-	-

Reproductive toxicity Based on available data, the classification criteria are not met

STOT - single exposure No effects on specific target organs have been identified

STOT - repeated exposure No effects on specific target organs have been identified

Aspiration hazard Not expected.

12. Ecological information

12.1. Toxicity

Ecotoxicity

Component information

Chemical name	Algae/aquatic plants	Fish	Crustacea	Toxicity to microorganisms
Polyhalite	-	-	-	-
potassium chloride	EC50: > 100 mg/L (72h, Desmodesmus subspicatus)	LC50: 880 mg/L (96h, Pimephales promelas)	EC50: 440-880 mg/L (48h, Daphnia magna)	EC50: >1000 mg/L (3h, activated sludge)

12.2. Persistence and degradability

Persistence and degradability Biodegradation is not relevant for inorganic substance.

12.3. Bioaccumulative potential

Bioaccumulation Not expected to bioaccumulate.

Chemical name	Partition coefficient
Polyhalite	-
potassium chloride	-

12.4. Mobility in soil

Mobility in soil No information available.

no data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Not relevant for inorganic substance.

Chemical name	PBT and vPvB assessment
Polyhalite	PBT assessment does not apply
potassium chloride	PBT assessment does not apply

12.6. Other adverse effects

Other adverse effects This product is used as fertilizer. However, large spills can kill vegetation. Prevent large quantities from entering waterways.

13. Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in a safe manner in accordance with local/national regulations.

Contaminated packaging Empty containers should be disposed of in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION**IMDG**

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not Applicable
14.6 Special precautions	None

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

ADR/RID/ADN

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not Applicable
14.6 Special precautions	None

IATA

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not Applicable
14.6 Special precautions	None

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical name	French RG number
potassium chloride 7447-40-7	RG 67

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable

International Inventories

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory

TSCA	Listed or exempted
DSL	Listed or exempted
ENCS	Listed or exempted
IECSC	Listed or exempted
KECL	Listed or exempted
PICCS	Listed or exempted
AICS	Listed or exempted
NZIoC	Listed or exempted

TCSI	Listed or exempted
NCI	Listed or exempted
TECI	Listed or exempted
NSQ	Listed or exempted

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substance Inventory
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
NCI - Vietnam National Chemicals Inventory
TECI - Thailand Inventory FDA Existing Chemicals
NSQ - Mexico National Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

16. Other information

Revision Note The symbol (*) in the margin of this SDS indicates that this line has been revised

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend**

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AELG(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet