



# 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 29-Mar-2023

Supersedes Date: 30-Jan-2022

Revision Number 5.3

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

### 1.1. Product identifier

Product Name	Polysulphate Standard, Polysulphate Granular
Product Code(s)	5003
REACH registration number	This product is exempted from the obligation to register in accordance to Reg.(EC) 1907/2006 (natural mineral not modified chemically).
Synonyms	Polyhalite
Pure substance/mixture	Substance

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

Recommended use	Fertilizer
Uses advised against	Uses other than those recommended.

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

ICL Europe Cooperatief U.A.  
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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## SECTION 2: Hazards 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

This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of  $\geq 0.1\%$ .

### Endocrine Disruptor Information

Chemical name	EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very	EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of
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	High Concern (SVHC) for Authorisation	Substances
Polyhalite	-	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Polyhalite	-

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Polyhalite	-	15278-29-2	100	-	-	-	-	-	-

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

Acute Toxicity Estimate  
No information available

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)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General advice</b>	Take a copy of the Safety Data Sheet when going for medical treatment. Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth thoroughly with water Get medical attention if symptoms occur NOTE: Never give an unconscious person anything to drink

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

**Symptoms** Gastrointestinal discomfort.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 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** On decomposition product releases oxygen which may intensify fire. Oxides of sulfur. Magnesium oxide.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid dust formation. Ensure adequate ventilation.

### 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Ensure adequate ventilation.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**7.3. Specific end use(s)**

**Specific use(s)** See Section 1.2 for more information.

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

**SECTION 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	Austria	Belgium	Bulgaria	Croatia
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Polyhalite 15278-29-2	-	-	-	-	-
Chemical name	Sweden		Switzerland		United Kingdom
Polyhalite 15278-29-2	-		-		TWA, 8-hr: 10 mg/m <sup>3</sup> (inhalable dust, as Emery) TWA, 8-hr: 4 mg/m <sup>3</sup> (respirable dust, as Emery)

**Biological occupational exposure limits** No relevant information available.

**DNELs for workers**

Chemical name	Acute - local effects	Acute - systemic effects	Long term Local effects	Long term systemic effects
Polyhalite 15278-29-2	-	-	-	-

**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	-	-	-	-

**Predicted No Effect Concentration (PNEC)**

Chemical name	Water	Sediment	Soil	Impact on Sewage	Oral

				Treatment	
Polyhalite 15278-29-2	-	-	-	-	-

## 8.2. Exposure controls

<b>Engineering controls</b>	Eyewash stations Showers Ventilation systems 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)).
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Chemical safety goggles.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
<b>Hand protection</b>	Protective gloves
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder granules
<b>Color</b>	Grey White
<b>Odor</b>	Odorless.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	No data available	Not determined
<b>Flammability (solid, gas)</b>	Not flammable .	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	No data available	Not applicable
<b>Autoignition temperature</b>	No data available	Not self-ignitable
<b>Decomposition temperature</b>		None known
<b>pH</b>	Neutral	None known
<b>pH (as aqueous solution)</b>	No data available	No information available
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Water solubility</b>	Soluble	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	
<b>Vapor pressure</b>	No data available	

Relative density	No data available	None known
Bulk density	1.4-1.8 g/cm <sup>3</sup>	
Liquid Density	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Not applicable

**Explosive properties** Product does not present an explosion hazard.

Not flammable

**Oxidizing properties** The structure indicates non oxidizing properties**9.2.2. Other safety characteristics**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity****Reactivity** No reactive hazards known/expected.**10.2. Chemical stability****Stability** Stable under normal conditions.**Explosion data****Sensitivity to mechanical impact** None.**Sensitivity to static discharge** None.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** None under normal processing.**10.4. Conditions to avoid****Conditions to avoid** To avoid thermal decomposition, do not overheat.**10.5. Incompatible materials****Incompatible materials** None known based on information supplied.**10.6. Hazardous decomposition products****Hazardous decomposition products** Sulfur oxides. Magnesium oxide. Oxygen.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity**

No information available

**Acute toxicity**

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

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available

**Germ cell mutagenicity** No information available

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

Chemical name	ACGIH	IARC	NTP	European Union
Polyhalite	-	-	-	-

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available

**Aspiration hazard** Not expected.

**11.2. Information on other hazards****11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No endocrine disrupting properties are known.

**11.2.2. Other information**

**Other adverse effects** No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Polyhalite	-	-	-	-

**12.2. Persistence and degradability**

**Persistence and degradability** Biodegradation is not relevant for inorganic salts.

**12.3. Bioaccumulative potential**

**Bioaccumulation** Not expected to bioaccumulate  
The bioaccumulation potential is expected to be low

Chemical name	Partition coefficient
Polyhalite	-

**12.4. Mobility in soil**

**Mobility in soil** No information available.

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

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

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No endocrine disrupting properties are known.

**12.7. Other adverse effects**

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

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

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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

**SECTION 14: Transport information****IATA**

14.1 UN number or ID 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 for user	
Special Provisions	None

**IMDG**

14.1 UN number or ID 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 for user Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

**ADR/RID/ADN**

14.1 UN number or ID 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 for user Special Provisions	None

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****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)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Polyhalite - 15278-29-2	-	-

**REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors**

Not applicable

**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. Products that are used as food additives are exempt from listing in international chemical inventories.

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: [msdsinfo@icl-group.com](mailto:msdsinfo@icl-group.com)

<b>TSCA</b>	Listed or exempted
<b>DSL</b>	Listed or exempted
<b>ENCS</b>	Listed or exempted
<b>IECSC</b>	Listed or exempted
<b>KECL</b>	Listed or exempted
<b>PICCS</b>	Listed or exempted
<b>TCSI</b>	Listed or exempted
<b>AIIC</b>	Listed or exempted
<b>NZIoC</b>	Listed or exempted
<b>NCI</b>	Listed or exempted
<b>NSQ</b>	Listed or exempted
<b>TECI</b>	Listed or exempted

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL** - Canadian 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  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NCI** - Vietnam National Chemicals Inventory  
**NSQ** - Mexico National Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TECI** - Thailand Inventory FDA Existing Chemicals

**15.2. Chemical safety assessment****Chemical Safety Report**

A Chemical Safety Assessment is not required for this substance.

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet**

SVHC: Substances of Very High Concern for Authorization:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

**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)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(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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**Revision date** 29-Mar-2023

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

**Training Advice** Adequate training is required before industrial or professional use

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

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**End of Safety Data Sheet**