

# SAFETY DATA SHEET

## Sulphur



The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 08.06.2017

#### 1.1. Product identifier

Product name Sulphur  
REACH Reg. No. 01-2119487295-27-0163  
CAS no. 7704-34-9  
EC no. 231-722-6  
Article no. 9920, 9950

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

Use of the substance/preparation Intermediate. Use as Release Agents or Binders. Rubber Production and Processing. Use as a Fuel. Use in Agrochemicals. Use in Road and Construction Applications. Explosives Manufacture & Use.  
Uses advised against No specific uses advised against are identified.

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

##### Manufacturer

Company name Polar Division of PJSC MMC Norilsk Nickel  
Office address 2 Gvardeyskaya Square  
Postcode 663302  
City Norilsk  
Country Russian Federation  
Tel +7 (3919) 25-43-03  
Fax +7 (3919) 25-88-86  
E-mail [product.safety@nornickel.fi](mailto:product.safety@nornickel.fi)

#### 1.4. Emergency telephone number

Emergency telephone Description: 3E EH&S Mission Control Center: +44 20 35147487 / Access Code: 334656

### SECTION 2: Hazards identification

#### 2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Skin Irrit. 2; H315

#### 2.2. Label elements

## Hazard Pictograms (CLP)



Signal word	Warning
Hazard statements	H315 Causes skin irritation.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice / attention.

### 2.3. Other hazards

PBT / vPvB	The PBT and vPvB criteria of Annex XIII to the regulation does not apply to inorganic substances.
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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance	Identification	Classification	Contents
Sulfur	CAS no.: 7704-34-9 EC no.: 231-722-6 REACH Reg. No.: 01-2119487295-27-0163	Skin Irrit. 2;H315	> 99,2 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	If breathed in, move person into fresh air. Call a physician if symptoms occur.
Skin contact	In case of contact, immediately flush skin with soap and plenty of water. Wash clothing before reuse. Call a physician if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician if symptoms occur.
Ingestion	Rinse mouth with water. Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

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

General symptoms and effects	Irritating to skin.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	No data available.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Water. Foam. Powder. Sand
Improper extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Dust may form explosive mixture with air.
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Hazardous combustion products Sulphurous gases (SO<sub>x</sub>).

### 5.3. Advice for firefighters

Personal protective equipment Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental release measures

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

Personal protection measures Avoid dust formation. Avoid inhalation of dust. Avoid contact with skin and eyes. Do not smoke, use open fire or other sources of ignition.

### 6.2. Environmental precautions

Environmental precautionary measures Should not be released into the environment.

### 6.3. Methods and material for containment and cleaning up

Other information Remove all sources of ignition. Avoid creating dust. Send in suitable containers for recovery or disposal. Incompatible products : Strong oxidizing agents

### 6.4. Reference to other sections

Other instructions See also section 8,13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling Avoid contact with skin, eyes and clothing. Avoid creating dust. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Provide good ventilation of working area (local exhaust ventilation if necessary).

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

Storage Always keep in containers of same material as the original one. Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

### 7.3. Specific end use(s)

Specific use(s) No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL / PNEC

DNEL

Route of exposure: Long term (repeated) – Inhalation – Local effect  
Remarks: No hazard identified.

Route of exposure: Short term (acute) – Inhalation – Systemic effect  
Value: -  
Remarks: No hazard identified.

Route of exposure: Long term (repeated) – Inhalation – Systemic effect  
Remarks: No hazard identified.

Route of exposure: Short term (acute) – Dermal – Systemic effect

Value: -

Remarks: No hazard identified.

Route of exposure: Long term (repeated) – Dermal – Systemic effect

Value: -

Remarks: No hazard identified.

Route of exposure: Long term (repeated) – Dermal – Local effect

Remarks: No hazard identified.

Remarks: Acute exposure Local Toxicity dermal No-threshold effect and/or dose-response information available If inhaled No hazard identified (data available)

PNEC

Remarks: PNEC Fresh water : Not calculated as the substance is highly insoluble in water. No toxicity is observed in studies which have been undertaken.

PNEC Sea water: Not calculated as the substance is highly insoluble in water. No toxicity is observed in studies which have been undertaken.

PNEC Fresh water sediment : Due to absence of toxicity a PNEC has not been determined.

PNEC Sea sediment : Due to absence of toxicity a PNEC has not been determined.

## 8.2. Exposure controls

### Eye / face protection

Suitable Eye Protection

Use eye protection. Wear full-face visor or shield.

### Hand protection

Suitable gloves type

Wear protective gloves.

### Skin protection

Suitable protective clothing

Wear appropriate clothing to prevent reasonably probable skin contact. Wear special protective clothing.

### Respiratory protection

Recommended type of equipment

Use respiratory equipment with particle filter, type P3.

### Appropriate environmental exposure control

Environmental exposure controls

The employer shall fulfill requirements of IPPC Directive.

## SECTION 9: Physical and chemical properties

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

Physical state

Solid.

Colour

Yellow.

Odour

odourless

Odour limit

Comments: No data available.

pH

Status: In delivery state

Comments: No data available. insoluble

Melting point / melting range

Comments: 119°C

Boiling point / boiling range	Comments: 445°C
Flash point	Comments: 168-207°C
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit with unit of measurement	Comments: 35
Upper explosion limit with units of measurement	Comments: 1400
Vapour pressure	Comments: 0.00014 Pa (20°C)
Specific gravity	Comments: 2.07
Bulk density	Value: 1,8 g/cm3
Partition coefficient: n-octanol/water	Comments: No data available.
Spontaneous combustability	Comments: 190°C
Decomposition temperature	Comments: No data available.
Viscosity	Comments: Solid

## 9.2. Other information

### Other physical and chemical properties

Comments	Product form lumps.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	Stable under normal conditions.
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### 10.2. Chemical stability

Stability	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Potential dust explosion hazard.
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### 10.4. Conditions to avoid

Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition.
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### 10.5. Incompatible materials

Materials to avoid	Strong oxidizing agents , Acids , Bases , Organic materials
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Sulphur oxides (SOx);
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## Other information

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

## Other information regarding health hazards

Assessment of acute toxicity classification	LD50/oral/rat = >2000 mg/kg LD50/dermal/rat >2000 mg/kg LC50/inhalation/4h/rat = > 5.43 g/m <sup>3</sup>
Assessment of skin corrosion / irritation, classification	Skin irrit. 2 Causes skin irritation. According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Irritation	According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
General respiratory or skin sensitisation	Not Rated
Assessment carcinogenicity classification	Not Rated
Aspiration hazard, comments	Not Rated

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity	The short term study with fish does not need to be conducted as the substance is highly insoluble in water (water solubility < 5 µg/l).
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### 12.2. Persistence and degradability

Persistence and degradability	Biodegradation is not applicable as the substance is inorganic and highly insoluble in water.
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### 12.3. Bioaccumulative potential

Bioaccumulative potential	As sulfur is an inorganic substance, it will not have any significant potential for bioaccumulation.
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### 12.4. Mobility in soil

Mobility	In accordance with column 2 of REACH Annex VIII, an adsorption/desorption study does not need to be conducted if based on the physicochemical properties the substance can be expected to have a low potential for adsorption (i.e. the substance has a low log K <sub>ow</sub> ). As sulfur is an inorganic substance, it will not have any significant potential for adsorption.
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### 12.5. Results of PBT and vPvB assessment

PBT assessment results	The PBT and vPvB criteria of Annex XIII to the regulation does not apply to inorganic substances.
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### 12.6. Other adverse effects

Other adverse effects / Remarks	no data available
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Contaminated packaging should be emptied as far as possible. Packaging that cannot be cleaned should be disposed as special waste in compliance with local and national regulations.
Other Information	Contact manufacturer. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of as special waste in compliance with local and national regulations.

## SECTION 14: Transport information

**14.1. UN number**

Comments Not classified as dangerous in the meaning of transport regulations.

**14.2. UN proper shipping name**

Comments -

**14.3. Transport hazard class(es)**

Comments -

**14.4. Packing group**

Comments -

**14.5. Environmental hazards**

Comments None.

**14.6. Special precautions for user**

Special safety precautions for user -

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Transport In Bulk Value (Yes/No) Yes

**Additional information.**

Additional information. Bulk Cargo Shipping Name: Sulphur, Group C

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

Legislation and regulations No data available.

**15.2. Chemical safety assessment**

Chemical safety assessment performed Yes

**SECTION 16: Other information**

List of relevant H-phrases (Section 2 and 3). H315 Causes skin irritation.

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Skin Irrit. 2; H315

Additional information  
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