



Safety Data Sheet

Date of Issue: 01.06.2021

Date of Expiry: 01.06.2026

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : **ECP Limited**
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Emergency phone number : 0800 243 622 (24 hours)

Product	Potassium Polysulfide	Code	38959
CAS No.	UN No.	DG Class/es	Packing group
37199-66-9	1382	4.2	II

Recommended use : Laboratory Investigations

2: Hazard's identification

GHS Classification

Skin corrosion (Category B)
Serious eye damage (Category A)
Aquatic toxicity (Acute or Chronic) (Category A)

GHS Label elements, including precautionary statements

Pictogram



Signal word : **Danger**

Hazard statement(s)

H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

Precautionary statement(s)

Prevention :

P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response :

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage :

P405 Store locked up.

Disposal :

P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards

Contact with acids liberates toxic gas.

3: Composition/information on ingredients

Component	CAS No.	Weight
Potassium sulfide (K ₂ (S _x))	37199-66-9	100%

4: First aid measures

Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact

Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.

Inhalation

Remove to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion

Do NOT induce vomiting. Call a physician immediately.

Most important symptoms and effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or oesophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Notes to Physician

Treat symptomatically

5: Firefighting measures

Suitable Extinguishing Media

Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media

DO NOT USE WATER

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Sulfur oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6: Accidental release measures

Personal Precautions

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Keep people away from and upwind of spill/leak.

Environmental Precautions

See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.

7: Handling and storage

Handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not breathe mist/vapors/spray. Do not ingest. If swallowed, then seek immediate medical assistance.

Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Flammable's area.

8: Exposure controls/personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection :

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection :

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection :

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection :

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties**Information on basic physical and chemical properties****a) Appearance**

Form: solid

b) Odour Rotten egg odour

c) pH 13 at 10 g/l at 20 °C

d) Melting point/freezing point

Melting point/range 200 - 250 °C

e) Initial boiling point and boiling range

> 400 °C

f) Flash point > 200 °C – micro powder

g) Relative density 1.65 g/cm³

h) Water solubility 500 g/l

i) Auto-ignition temperature The substance or mixture is classified as self-heating with category 2.

j) Decomposition Temperature > 460 °C

k) Molecular Formula K₂S_x

10: Stability and reactivity**Reactive Hazard**

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid Incompatible products

Incompatible Materials Acids

Hazardous Decomposition Products

Sulfur oxides

Hazardous Polymerization

Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing

11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion may cause immediate burning pain in the mouth.

Skin corrosion/irritation

Causes skin burns.

Serious eye damage/eye irritation

Risk of serious damage to eyes.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Potential health effects

Inhalation

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed. Causes burns.

Skin

May be harmful if absorbed through skin. Causes skin burns.

Eyes

Causes eye burns.

Signs and Symptoms of Exposure

Spasm, inflammation and oedema of the larynx. Spasm, inflammation and oedema of the bronchi. Pneumonitis, pulmonary oedema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Additional Information

RTECS: TT5950000

12: Ecological information

Ecotoxicity

Do not empty into drains. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

13: Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

14: Transport Information Table

	ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
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UN Number	1382	1382	1382
UN Proper Shipping name	POTASSIUM SULFIDE, ANHYDROUS	POTASSIUM SULFIDE, ANHYDROUS	POTASSIUM SULFIDE, ANHYDROUS
Transport Hazard Class	4.2	4.2	4.2
Packaging group	II	II	II

15: Regulatory information

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

National regulatory information

HSNO Approval Code: HSR001305

HSNO Group Standard Approval: HSR002692 - Laboratory Chemicals and Reagent Kits (Class 4) Group Standard 2006

Tracking Required: 6.1B

Approved Handler Cert.: 6.1B

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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