

Chemical Safety Data Sheet

Section 1 Product and Company Identification

Product Name	Potassium Monopersulfate Compound
Company name	DALIAN HEFU TRADING CO., LTD.
Company address	ROOM 1003 YIHUA BUILDING, NO. 215 HUANGHAI XISI ROAD, DALIAN F.T.Z. LIAONING PROVINCE CHINA
Company fax	+86-0411-39266880
Company email	GREAT@DLWAWOO.COM
Emergency number	+86-0411-39552835

Section 2 Hazards Identification

Hazard class and label elements of the substance according to GHS(the fifth revised edition):

GHS hazard class

Physical hazard(s)	Acute toxicity-oral	Category5
Health hazard(s)	Skin corrosion/irritation	category1b
	Serious eye damage/eye irritation	category1
	Specific target organ toxicity, single exposure; Respiratory tract irritation	category3

Hazard statement(s)

Danger

H303 May be harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary statements

H335 May cause respiratory irritation

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

P312 Call a POISON CENTER/doctor/if you feel unwell.

P363 Wash contaminated clothing before reuse.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (%W/W)	CAS No.	EC No.
Potassium Monopersulfate	≥50	10058-23-8	233-187-4
Potassium Sulfate	13	7778-80-5	231-915-5
Sodium Sulfate	35	7757-82-6	231-820-9
Magnesium Sulfate	Approx.2	7487-88-9	231-298-2

Section 4 First Aid Measures

- After skin contact** Immediate flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
- After eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical advice.
- After ingestion** If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband the substance. Seek immediate medical attention. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- After inhalation** Move to fresh air. Oxygen or artificial respiration if needed, Get immediately medical attention.

Section 5 Fire Fighting Measures

Hazardous products of combustion	Can be released in case of fire: oxygen, sulfur dioxide, sulfur anhydride, etc.
Extinguishing method	Water
Special protective equipment	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Section 6 Accidental Release Measure

Personal protective measures	Ensure adequate ventilation. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Environmental protective measures	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Methods for taking in and cleaning up	Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation. Clean contaminated surface thoroughly.

Section 7 Handling and Storage

Handling	Avoid contact with skin, eyes, mucous membranes and clothing. In case of insufficient ventilation, wear Suitable respiratory equipment if ingested. Avoid formation of dust and aerosols. Keep away from heat, sources of ignition, sparks or open flame.
Storage	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used. Keep away from fire and heat source. Sealed packaging. Store away from reducing agents, strong bases, heavy metallic salt, etc.

Section 8 Exposure Controls/Personal Protection

Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility. Use adequate ventilation to keep airborne concentrations low.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Eye protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure.
Hand Protection	Wear appropriate chemical resistant gloves.
Body protection	Use clean protective body-covering as needed to minimize contact with clothing and skin.

Section 9 Physical and Chemical Properties

Appearance	White solid
Odour	No data available
Odour Threshold	No data available
pH	2~3
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density(g/L)	800~1200
Water solubility(g/L,20°C)	256
Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Section 10 Stability and Reactivity

Reactive	No data available.
Chemical stability	This is a stable chemical under the recommended storage condition.
Possibility of hazardous reactions	No data available.
Avoid conditions	Heat, flames and sparks. Incompatibles. The extreme temperatures and direct sunlight.
Incompatible materials	Reducing agents, strong bases, heavy metallic salt.
Hazardous decomposition products	Oxygen, sulfur dioxide, sulfur anhydride.

Section 11 Toxicological Information

Acute toxicity: Potassium bisulfate : LD₅₀ (rat, Oral) 2340mg/Kg.

Potassium sulfate : LD₅₀ (rat, Oral) 6600mg/Kg.

Skin corrosion/irritation: Cause serious skin burns and eye damage.

Serious eye damage/eye irritation: Cause serious eye damage.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No data available.

Section 12 Ecological Information

Toxicity: **potassium bisulfate**
Test & Species
96Hr LC50 fish: 3500mg/l
48Hr EC50 Daphnia: 1310mg/l
72Hr EC50 Algae: N/A
Potassium sulfate
Test & Species
96Hr LC50 fish: 680mg/l
48Hr EC50 Daphnia: N/A
72Hr EC50Algae:N/A

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Section 13 Disposal Considerations

Property of waste: Hazardous Waste.

Methods of disposal: Contact a licensed professional waste disposal service to disposal of this material.
Dispose of in accordance with local Environment regulations or local authority Requirement.

Precautions of disposal: Professional processing together.

Section 14 Transport Information

UN number: 3260

UN proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N, o. S.
(contains Potassium peroxymonosulfate and Potassium bisulfate)

Transportation primary hazard class: 8

Transportation secondary hazard class: ——

Packing group: II

Section 15 Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Potassium Monopersulfate	√	√	√	√
Potassium Sulfate	√	√	√	√
Potassium Bisulfate	√	√	√	√
Magnesium Sulfate	√	√	√	√

Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 Additional Information

This Safety Data Sheet (SDS) was prepared according to UN GHS (the fifth revised edition), is only for users reference. Users should make their independent judgment of suitability of these information for their particular purposes.