

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Potassium chlorate CAS: 3811-04-9 Application: Laboratory chemicals, Manufacture of substances Manufacturer: Sinopharm Chemical Reagent Co., Ltd. No. 52 Ning Bo Road, Shanghai 200002, China Fax: 86-021-6321403 Emergency Telephone: 86-0532-83889090 Email: sj zjzx@sinopharm.com Website: http://www.reagent.com.cn MSDS No: SCRC CSDS3811-04-9 Potassium chlorate

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing solids Category 1 (H271) Acute oral toxicity Category 4 (H302) Acute Inhalation Toxicity - Dusts and Mists Category 4 (H332)Chronic aquatic toxicity Category 2 (H411)

Label elements

Labelling according Regulation (EC) No 1272/2008





Signal word: Danger

Hazard statement(s):H271 - May cause fire or explosion; strong oxidizerH302 - Harmful if swallowedH332 - Harmful if inhaledH411 - Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P221 - Take any precaution to avoid mixing with combustibles.P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection P371 + P380 + P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.

not applicable

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

Other hazards none

3. Composition/information on ingredients Substance/Mixture: Substance

Component	CAS RN	Concentration
Potassium chlorate	3811-04-9	≤100

4. First aid measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Getmedical attention. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or insection 11 Indication of any immediate medical attention and special treatment needed no data available

5. Firefighting measures

Extinguishing media

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

no data available Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closedcontainers for disposal. Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials. Keepcontainers tightly closed in a dry, cool and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection Control parameters

Components with workplace control parameters

MAC: No data available PC-STEL: No data available TLV-TWA: No data available PC-TWA: No data available TLV-C: No data available TLV-STEL: No data available **Exposure controls**

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks andat the end of workday. Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN14387) respirator cartridges as a backup to enginee protection, use a full-face supplied airrespirator. Use respirators and components tested and approved under appropriate governmentstandards such as NIOSH (US) or CEN (EU).

Appearance WhitePhysical State Powder Solid

Control of environmental exposure

Do not let product enter drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

a)	Appearance
	o 1

b)	Odour	no data available
c)	Odour Threshold	No data available
d)	рН	5-6(73g/L, H20, 20°C)
e)	Melting point/freezing point	356-368°C
f)	Initial boiling point and boiling range	400°C/760mmHg(dec.)
g)	Flash point	NA
h)	Evapouration rate	No data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	No data available
		No data available
k)	Vapour pressure	No data available
1)	Vapour density	No data available
m)	Relative density	ρ (20)2.32g/mL
n)	Water solubility	no data available
o)	Partition coefficient:noctanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	NA
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

Other safety information No data available.

10. Stability and reactivity Reactivity no data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions no data available Conditions to avoid no data available Incompatible materials Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxidesOther decomposition products - No data availableIn the event of fire: see section 5 11. Toxicological information Information on toxicological effects Acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information No data available 12. Ecological information Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment No data available Other adverse effects No data available 13. Disposal considerations Waste treatment methods Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packagingDispose of as unused product. Contaminated packaging Dispose of as unused product. 14. Transport information UN number

ADR/RID:1485

UN proper shipping name

ADR/RID: POTASSIUM CHLORATE

IMDG:POTASSIUM CHLORATE

IMDG:1485

IATA: POTASSIUM CHLORATE

IATA:1485

Transport hazard class(es)

ADR/RID:5.1	IMDG:5.1	IATA:5.1
Packaging group		
ADR/RID:II	IMDG:II	IATA:II
Environmental hazards		
ADR/RID:yes	IMDG:yes	IATA:yes
Special procentions for user		

Special precautions for user

no data available

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No data available Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H271 - May cause fire or explosion; strong oxidizerH302 - Harmful if swallowedH332 - Harmful if inhaledH411 - Toxic to aquatic life with long lasting effects

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sinopharm Chemical Reagent Co.,Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.