CHIN CHA-ROEN INTERCHEM CO.,LTD.



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GROUPSTARS CHEMICAL (YUNNAN) CHINA L.L.C

NANSHANSI, CHENGAN, JIANSHUI COUNTY, YUNNAN. CHINA.

CERTIFICATE OF MATERIAL SAFETY DATA SHEET

Potassium Permanganate

NFPA* Hazard Signal

Health Hazard

1 = Materials which under fire conditions give c

would (less than 1 hr exposure) irritating combustion products

Flammability hazard

0 = Materials that will not burn

Reactivity hazard

0 =Materials which in themselves are normally stable.

even under fire exposure conditions, and which are not

Reactive with water

Special Hazard

OXY = Oxidizer

National Fire Protection Association 704

Section 1

Production Identification

Telephone Number for Information: 225-201-1366

or 615-828-1652

Emergency Telephone Number:

225-201-1366

or 615-828-1652

Chemtrec Telephone No:

1-800-424-9300

Product Name:

Groupstars -- 100 Potassium Permanganate, KmnO4

Trade Name:

Groupstars -100 Potassium Permanganate

Synonyms:

Permanganic acid potassium salt

Chameleon mineral

Condy's crystals

Permanganate of potash

Department of Transportation information:

Proper shipping Name:

49CFR172.101

Potassium Permanganate

ID Number:

49CFR172.101

UN 1490

Hazard Class:

49CFR172.101

Oxidizer

Hazardous Substance

Reportable Quantity:

40CFR302.4

RQ-100 lb

Chemtrec Telephone No:

(800)-424-9300

RCRA: Oxidizer such as potassium permanganate meet the criteria of ignitable waste.

CFR261.21

Registry of Toxic Effects of Chemical Substances

RTTECS # SD6475000

Potassium Permanganate contains 33 – 35% manganese as part of the Chemical infrastructure (manganese compounds CAS Reg. No. N/A) and is subject to the reporting requirements of section 313 of Title III, Superfund Amendments And Reauthorization Act of 1986 and 40 CFR372.

FIRST RESPONDERS:

Wear protective gloves, boots, goggles, and respirator. In case of fire, wear Positive pressure breathing apparatus. Approach incident with caution. Use Emergency Response Guide 35 (DOT P5800.4).

Section II Hazardous Ingredients

Material or component

CAS No.*

%

Potassium Permanganate

7722-64-7

97%min,KmnO4

Hazard Data

PEL** C**** 5mg Mn per cubic meter of air

TLV-TWA*** 5mg Mn per cubit meter of air

5 mg Mn per cubit meter of air is equivalent to 0.0046 ounces per 1000 cubit feet of air.

- Chemical Abstract Service Number
- ** OSHA Permissible Exposure Limit. Manganese compounds (expressed as Mn) 29CFR1910.1000 Table ZA1

- *** American Conference of Governmental Hygienists 1988/1989, for manganese dust and compounds, expressed as Mn, TLV-TWA = The time weighted average concentration of a normal 8 hour workday and a 40 hour workweek, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.
- **** Ceiling Exposure Limit or maximum exposure concentration not to be exceeded under any circumstances.

Section III Physical Data

Boiling Point, 760 mm Hg - Not applicable Specific Gravity - 2.7 g/cm# 20° C (68°CF) Vapor Density (Air = 1) - Not applicable Solubility IN Water % By Solution - 6.0% at 20° C (68°F), and 20% at 65° C (149°F)

Percent Volatile By Volume - Not Volatile

Evaporation Rate (BUTYL Acetate = 1) - Not applicable

Melting Point -

Starts to decompose with evolution of

Temperatures above 150°C (302°F)

Appearance And Odor -

dark purple solid with a metallic lust

Section IV Fire and Explosion Hazard Data

The material itself is noncombustible but will accelerate the burning of combustible material Flashpoint None

Flammable or Explosive Limits

Lower Nonflammable

Upper Nonflammable

Extinguishing Media – sue large quantities of water

Special Firefighting procedures

Watch for rapid burning and be prepared to retreat to a safe distance. If yellow, White or brown fumes are present, wear positive pressure breathing apparatus and Full protective clothing.

Unusual Fire And Explosion Hazards-

Powerful oxidizing material. May decompose spontaneously if exposed to intense Heat (150°C/302°F). May be explosive is contact with some other chemicals. May React violently with finely divided and readily oxidizable substance. Increases Flammability of combustible materials.

Section V Health Hazard Data

Potassium Permanganate. Acute oral LD50(rat) = 780 mg/kg Male (14 days) 525 mg/kg Female (14 days). The fatal dose by ingestion is estimated to be 10 grams or 0.35 ounces.

Routes of Exposure

1. Inhalation

Acute inhalation toxicity data are not available, however airborne concentration or Potassium permanganate in the form of dust, mist, or spray may irritate and cause Damage to the respiratory tract.

2. Skin Contact

Prolonged contact of solutions at room temperature may be irritating to the skin, Leaving brown stains on the skin. Concentrated solutions at elevated temperature And crystals are corrosive to the skin.

Eye Contact

Potassium permanganate is corrosive to eye tissue on contact. It may cause severe Burns that result in damage to the eye.

4. Ingestion

Potassium permanganate, if swallowed may case sever burns to mucous Membranes of the mouth ,throat ,esophagus, and stomach.

Effects Of Overexposure

- Acute Overexposure (instantaneous overexposure) Irritating or corrosive to body tissue on contact.
- 2. Chronic Overexposure (long term overexposure) Prolonged exposure, usually many Years, to heavy concentrations of dust and fumes above the TLV-valve, mainly in the Form of manganese oxides may lead to lung irritation and central nervous system Disorder. The symptoms may simulate Parkinson's disease. No known cases of Central nervous system disorders due to exposure to KmnO4 have been reported.
- 3. Carcinogenicity
 Potassium

CHONGQING CHANGYUAN CHEMICAL CORPORATION LTD. May 14, 2011

進庆昌元化工有限公司 CHONGQING CHANGYUAN CHEMICAL CORPORATION LTD

