MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: Potassium Dimethyl Dithiocarbamate

Uses: Potassium dimethyl dithiocarbamate is a popular short term preservative for raw hides, wet-blue and retanned leather.

Contact Information: SPE Chemicals Co.,Ltd Tel: +86-21 51386414

2. HAZARD IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC.

Dangerous According to the Australian Code for the Transport of Dangerous Goods.

Classified as Dangerous Goods According to NZS 5433:1999.

HARMFUL CORROSIVE

Risk Phrases R20/22Harmful by inhalation and if swallowed.
R41Risk of serious eye damage.

Safety Phrases S1/2Keep locked up and out of the reach of children.
S26In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36Wear suitable protective clothing.
S45In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Proportions (%)
POTASSIUM DIMETHYL DITHIOCARBAMATE	[128-03-0]	40
WATER	[7732-18-5]	60

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed: Rinse mouth with water. Give water to drink provided person is conscious. Do NOT induce vomiting. Seek immediate medical attention.

Eye: Immediately flush eyes with plenty of water holding eyelids open. Seek immediate medical attention.

Skin: Remove contaminated clothing. Flush affected area with plenty of water. If irritation persists, seek medical attention.

Inhaled: Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Advice to Doctor: Treat symptomatically based on individual reactions of patient and judgement of doctor.

5. FIRE FIGHTING MEASURES

Extinguishing Media: In case of fire, appropriate extinguishing media include dry chemical,

foam, carbon dioxide and water fog. Use water to cool fire-exposed containers and to protect personnel.

Hazards from Combustion Products: Combustible liquid. Incompatible with oxidizing agents, acids, acidic materials and sources of ignition. Wheninvolved in a fire, this product may generate irritating and harmful fumes and smoke including carbon disulphide and dimethylamine.

Special Protective Precautions and Equipment for Fire Fighters Fire fighters: should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas where gases or fumes can accumulate. Eliminate ignition sources.

Flammability Conditions: Product is a combustible liquid.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures :Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid walking through spilled product as it is corrosive and may also be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use non-sparking, corrosion-resistant tools and equipment.

Methods and Materials for Containment and Clean Up: Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect the material and transfer to a suitable, labelled, corrosion-resistant chemical waste container and dispose of promptly.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale vapours.

Conditions for Safe Storage: (Including Any Incompatibles) Store in a cool, dry, well-ventilated area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including oxidizing agents, acids, acidic materials and sources of ignition. Protect from direct sunlight, moisture and static discharges. This product has a UN classification of 3267 and a Dangerous Goods Class 8 (corrosive) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail. Dangerous Goods of Class 8 Corrosive are incompatible in a placard load with Class 1, Class 4.3, Class 5, Class 6 if the Class 6 are cyanides and the Class 8 are acids, Class 7 and are incompatible with food and food packaging in any quantity.

Container Type: Packaging must comply with requirements of Hazardous Substances

(Packaging) Regulations 2001. Store in original packaging as approved by manufacturer. NOTE: Corrosion-resistant, acid-proof containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: No exposure standard has been established for this product by The Australian Safety and Compensation Council (ASCC).

Biological Limit Values: No information available on biological limit values for this product.

Engineering Controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection RESPIRATOR: Wear an approved respirator with organic vapour and dust/mist filter if engineering controls are inadequate (AS1715/1716) EYES: Tightly fitting splash goggles and a full face shield (1336/1337) HANDS: Neoprene or butyl rubber gloves (AS2161) CLOTHING: Corrosion-resistant coveralls and safety footwear (AS3765/2210)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear greenish yellow to yellow liquid

Formula: C3H7NS2.K

Odour: characteristic odour

Vapour Pressure: Not applicable.

Vapour Density: Heavier than air

Boiling Point: 100 deg C

Melting Point: Not applicable.

Solubility in Water: Soluble

Specific Gravity 1.160-1.20 (Water = 1)

Flash Point :Test Unknown 100

pH:11.0-12.0 ( )

Lower Explosion Limit: Not applicable.

Upper Explosion Limit: Not applicable.

Ignition Temperature: Not applicable.

Specific Heat Value Not applicable.

10. STABILITY AND REACTIVITY

Chemical Stability: Product is stable under normal conditions of use, storage and temperature. Combustible liquid.

Conditions to Avoid: Avoid excessive heat, direct sunlight, moisture, freezing, static charges and high temperatures.

Incompatible Materials: Incompatible with oxidizing agents, acids, acidic materials and sources of ignition.

Hazardous Decomposition: Products When involved in a fire, this product may generate irritating and harmful fumes and smoke including carbon disulphide and dimethylamine.

Hazardous Reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity Data Oral LD50 Rat: 1000mg/Kg

Health Effects - Acute

Swallowed: Ingestion may cause toxic reaction and severe gastric distress. Will result in corrosion of tissues of the gastro-intestinal tract. May also cause nausea, vomiting and diarrhea.

Eye: Causes irritation and a burning sensation. May result in severe corneal injury.

Skin: May cause skin irritation, redness, itching of the skin due to corrosion of the skin.

Inhaled: May cause irritation to the respiratory system. May produce burns of the respiratory

tract.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and Degardability: No information available on persistence/degradability for this product.

Mobility: No information available on mobility for this product.

Environmental Fate (Exposure): Do NOT allow product to enter waterways, drains or sewers.

Bioaccumulative Potential: No information available on bioaccumulation for this product.

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with all local, state and federal regulations.

Special Precautions for Land Fill or Incineration: This should be done in accordance with 'The Hazardous Waste Act'. Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport

UN Number 3267

Shipping Name CORROSIVE LIQUID,BASIC,ORGANIC,N.O.S.(POTASSIUM DIMETHYL DITHIOCARBAMATE)

Dangerous Goods Class 8

Subsidiary Risk Not applicable.

Pack Group III

Precaution for User HARMFUL CORROSIVE

Sea Transport

UN Number 3267

Shipping Name CORROSIVE LIQUID,BASIC,ORGANIC,N.O.S.(POTASSIUM DIMETHYL DITHIOCARBAMATE)

Dangerous Goods Class 8

Subsidiary Risk Not applicable.

Pack Group III

Precaution for User HARMFUL CORROSIVE

15. REGULATORY INFORMATION

EINECS No: 204-875-1 Potassium dimethyldithiocarbamate

Poisons Schedule N/A

EPG 36

AICS Name CARBAMODITHIOIC ACID, DIMETHYL-, POTASSIUM SALT

NZ Toxic Substance N

16. OTHER INFORMATION

This MSDS summarises SPE Chemicals Co., Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however we expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance.Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.