MATERIAL SAFETY DATA SHEET

POTASSIUM DIMETHYL DITHIO CARBAMATE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Potassium dimethyl dithio carbamate
- **Company Identification:** 237/2, Vellivoyal Chavadi
  Chennai – 600 103. Tamilnadu
- **Office Telephone No:** 044 64606747

2. COMPOSITION / INFORMATION OF INGREDIENTS

- **Chemical description:** Potassium dimethyl dithio carbamate

<table>
<thead>
<tr>
<th>CHEMICAL NAME CAS NO.</th>
<th>CAS NO.</th>
<th>EINECS NO.</th>
<th>WT%</th>
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<tbody>
<tr>
<td>Potassium dimethyl dithio carbamate</td>
<td>128-03-0</td>
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<td>30-60</td>
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3. HAZARD IDENTIFICATION

- **Classification of the substance or mixture:**
  - R22, R36, R50, N
  - Acute toxicity, oralCat.4, Serious eye damage / eye irritation Cat.2 A; Hazardous to the aquatic environment, acute hazard Cat 1

- **Label elements:**
  - **Hazard Statements:** Potassium dimethyl dithio carbamate may be harmful if ingested, inhaled, or absorbed through the skin. It may cause irritation to the respiratory tract, gastrointestinal tract, skin, and eyes. It may be corrosive to eye tissue and irritating to lung tissue. It may cause birth defects or other reproductive harm. It may cause nausea, vomiting, diarrhea, dermatitis, and thyroid problems. The toxicological properties have not been fully investigated.
  - **Precautionary Statements Prevention:** Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves / protective clothing / eye protection / face protection.
  - **Precautionary Statements Response:** Rinse mouth, IF SWALLOWED : call a POISON CENTER or
doctor / physician IF you feel unwell . IF eye irritation persists: Get medical advice / attention . IF IN EYES : Rinse cautiously with water for several minutes. Remove contact Lenses, if present and easy to do. Continue rinsing. Collect spillage. Hazardous to the aquatic environment

**Precautionary Statements - storage**
- Store in a dry place.
- Store in a closed container.
- Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal**
- Dispose of contents / container to an approved waste disposal plant

4. **FIRST AID MEASURES**

**General Advice:**
Treat symptomatically. Medical literature on human exposure to thio-carbamate derivatives is scarce. Animal studies suggest that contact dermatitis and thyroid hyperplasia may occur following exposure. These compounds do not have the cholinergic properties of structurally related carbamate insecticides.

**Inhalation**
If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

**Skin Contact:**
Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

**Eye Contact:**
Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

**Ingestion:**
If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

**Most important symptoms and effects, both acute and delayed**
Nausea, Vomiting, Diarrhea, To the best of our knowledge, the chemical, physical, and toxicological Properties have not been thoroughly investigated.

5. **FIRE FIGHTING MEASURES**

**Extinguishing Media:**
Water spray or fog. Foam

**Special hazards arising from the substance or mixture:**
Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus.

**Protective Equipment and Precautions for Firefighters**
The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Assess the extent of danger. Assist contaminated or injured persons. Evacuate the spill area. Avoid breathing vapors. If possible, confine the spill to a small area using a spill kit or absorbent material. Keep others from entering contaminated area (e.g., use caution tape, barriers, etc.).

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the Environment must be avoided.

Methods and material for containment and cleaning up: Stop leakage if possible. Collect as much as possible in a clean container for (preferable) reuse or disposal. Cover the remainder with inert absorbent (e.g., vermiculite) for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation.

Conditions for safe storage, including any incompatibilities & Storage: Avoid oxidising agents, acids, acid chlorides, acid anhydrides.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters Components with work place control parameters

Exposure controls

Engineering Controls: General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator

Personal Protective Equipment: The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor

Eye/face Protection: Safety glasses with side shields, Chemical goggles.

Skin Protection: Appropriately-fitting lab coat, long pants, closed-toe shoes

Body Protection: Wear chemical protective gloves, eg. PVC.

9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid
Incompatible materials:

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
Inhalation:
Skin irritation / sensitization
Reproductive toxicity:
Eye irritation
Germ cell mutagenicity:
Carcinogenicity:

12. ECOLOGICAL INFORMATION
Ecotoxicity:
Component information: Active ingredient
Toxicity to fish: LC50: 0.0127 - 1.10 mg/L
EC50/48h/daphnia: 0.017 mg/l
EC50/120h/algae: 0.047 mg/l
Toxicity to bacteria: IC50: 19.20 mg/l

Mobility in soil
Persistence and degradability:
Bio-accumulative potential:
Results of PBT and vPvB assessment:

13. DISPOSAL CONSIDERATIONS

Waste Disposal methods
Product:
If container cannot be cleaned sufficiently well to ensure none of the original product remains or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorized landfill.

Contaminated Packing
Clean contaminated surfaces with soap and water and paper towels. Dispose of the paper towels as hazardous waste.

14. TRANSPORT INFORMATION

Road transport (ADR/RID/ADN)
ADR/RID Class 9
UN-No No data available
Packing Group III
Hazard Label Hazardous for the environment
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium dimethyl dithio carbamate)

Sea transport (IMDG)
ADR/RID Class 9
UN-No No data available
Packing Group III
Marine pollutant Yes
Hazard Label Hazardous for the environment
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium dimethyl dithio carbamate)

Air transport (ICAO-TI/IATA)
ADR/RID Class: 9
UN-No: No data available
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Potassium dimethyl dithio carbamate)

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Regulation 1907/2006 REGULATION (EC) No 1272/2008
Classification according to EU directives 67/548/ EEC or 1999/45/EC
Chemical safety assessment:
For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Emergency seek Medical Aid