# entral Pollution Control Board

Ministry of Environment & Forests, Govt of India, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032

## MATERIAL SAFETY DATA SHEETS

391 Methyl mercuric dicyanamide

1. CHEMICAL IDENTITY

Chemical Name: Methyl mercuric dicyanamide

**Chemical Classification:** Toxic Trade Name:

**Synonyms:** Agrosol, (Cyanoguanidino)methylmercury, Mema, Methylmercuric cyanoguanidine,

Panogen Turf Fungicide

**CAS No:** 502-39-6 Formula: C3H6HqN4 **UN No**: 2024

**Regulated Identification** 

Hazchem Code: 2X **Shipping Name:** Codes / Label : Class 6.1, Toxic **Hazardous Waste ID No:** 

HAZARDOUS INGREDIENTS C.A.S. No. C.A.S. No.

Methyl mercuric 502-39-6 3

dicyanamide

2 4

2. PHYSICAL / CHEMICAL DATA

Appearance: Colourless crystals. Boiling Physical State: Solid

Pt. °C:

156 Vapour Pressure 6.5X10-5 mm Hg Odour: Melting

@ 35°C mmHq: Pt °C: @ 35 deg C

Solubility in 2.17X10+4 mg/l Vapour Others: Soluble in acetone.

Density(Air =1): water at 30°C @ 20 deg C ethanol, ethylene g/100ml: glycol but not in

benzene.

HAZARDOUS INGREDIENTS

Specific Gravity (Water =1): pH:

3. FIRE / EXPLOSION HAZARD DATA

Flammability: LEL: Flash Point °C in OC: **UEL:** Flash Point °C in CC: **TDG Flammability:** 

**Autoignition Temperature °C:** 

**Explosion sensitivity to impact:** 

**Explosion sensitivity to static Electricity:** 

Hazardous Combustion Products: When heated to decompose it emits toxic fumes of ho

and nitrogen oxides.

**Hazardous Polymerization:** 

**Explosive Material: Corrosive Material** Combustible Liquid:

Flammable Material: Oxidiser: Others:

**Pyrophoric Material: Organic Peroxide:** 

4. REACTIVITY DATA

Chemical Stability : Stable **Incompatibility with**: Incompatible with strong oxidizing agents such as chlorine.

other material

Reactivity :
Hazardous :
Reaction Products

## 5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin and Eyes

### **Effects of Exposure / Symptoms:**

Inhalation: Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin. Effects of contact or inhalation may be delayed. Ingestion: Skin: Skin irritation is reported, as well as blistering, with prolonged exposure. Eye: Some mercuric compounds are corrosive to the eyes and throat.

## **Emergency Treatment:**

Inhalation: Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and

assist ventilation as required. Treat bronchospasm with beta2 agonist and

corticosteroid aerosols.

**Skin:** Remove contaminated clothing and wash exposed area extremely thoroughly with

soap and water. A physician may need to examine the area if irritation or pain

persists after washing.

Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If

irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be

seen in a health care facility.

Ingestion: Administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100

g in adults/adolescents.

**LD50 (oral-rat) mg/kg:** 20 mg/kg (Mouse) **STEL:** 0.03 mg/m3 (skin)

LC50 (rat) mg/kg: Odour Threshold:

Permissible TLV (ACGIH): 0.01 mg/m3

**Exposure Limit:** 

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	4	1	0	

#### 6. PREVENTIVE MEASURES

**Personal Protective:** Wear appropriate clothing to prevent any possibility of skin contact.

**Equipment** 

Wear eye protection to prevent any possibility of eye contact. Employees should wash immediately when skin is wet or contaminated. Work clothing should be changed daily if it is possible that clothing is

contaminated. Remove non-impervious clothing immediately if wet or

contaminated. Provide emergency showers and eyewash.

**Handling** : All chemicals should be considered hazardous. Avoid direct physical

contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling

should occur in a chemical fume hood.

**Storage**: Keep in a cool, dry, dark location in a tightly sealed container or

cylinder. Keep away from incompatible materials, ignition sources and

untrained individuals. Secure and label area. Protect

containers/cylinders from physical damage.

Precautions :

#### 7. EMERGENCY / FIRST AID MEASURES

#### FIRE:

## Fire Extinguishing Media:

**Special Procedure**: Fight fire from maximum distance. Dike fire control water for later

disposal. Wear positive pressure breathing apparatus and special

protective clothing

Unusual Hazards : This material may burn but does not ignite readily. Container may

explode in heat of fire. Fire and runoff from fire control water may

produce irritating or poisonous gases

#### **EXPOSURE:** First Aid Measures:

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assist ventilation as required. Treat bronchospasm with beta2 agonist and

corticosteroid aerosols.

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soap and water. A physician may need to examine the area if irritation or pain

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Eyes: Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If

irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be

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**Ingestion:** Administer charcoal as a slurry (240 ml water/30 g charcoal). Usual dose: 25 to 100

g in adults/adolescents.

#### **Antidotes / Dosages:**

SPILLS:

Steps To Be Taken : Do not touch spilled material. Use water to reduce vapors. In event of

spill or leak: take up with absorbent material and place in containers

with covers.

## **Waste Disposal Method:**

#### 8. ADDITIONAL INFORMATION / REFERENCES

#### 9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM: Contact person MAILING ADDRESS: in Emergency:

TELEPHONE / TELEX NOS: Local Bodies involved: TELEGRAPHIC ADDRESS: Standard Packing:

OTHERS: Trem Card Details / Ref:

## 10. DISCLAIMER

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