

No data available

## **MATERIAL SAFETY DATA SHEET**

### **4. FIRST AID MEASURES**

- INHALATION      Move to well ventilated place.  
See medical advice immediately.
- EYE                Immediately flush with plenty of water.  
See medical advice immediately.
- SKIN              Wipe off with dry cloth and wash with mild soap.  
See medical advice immediately.
- INGESTION       See medical advice immediately.
- PROTECTION TO FIRST – AIDERS  
No data available
- NOTE TO PHYSICIAN  
Treatment may vary with condition of victim and specifics of incident.

### **5. FIRE FIGHTING MEASURES**

- FLAMMABLE PROPERTIES  
Flash Point            Not applicable
- EXTINGUISHING MEDIA  
Dry chemical powder, foam or carbon dioxide.
- FIRE FIGHTING INSTRUCTIONS  
Wear full fire-fighting turn-out gear and respiratory protection.

### **6. ACCIDENTAL RELEASE MEASURES**

- LAND SPILL      Wipe off with dry cloth.
- WATER SPILL     Contain spilled liquid with sand or earth.  
Do not use combustible materials, such as sawdust.

### **7. HANDLING AND STORAGE**

- HANDLING :      Use only in the well-ventilated areas.  
Avoid contact with skin or eyes , or clothing.  
Avoid inhalation and ingestion.  
Avoid high temp. and fire.  
Wash thoroughly after handling.
- STORAGE :        Store in a cool, dry, well-ventilated location.  
Keep away from heat, sunlight.  
Keep away from children.

**MATERIAL SAFETY DATA SHEET****8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

## EXPOSURE LIMIT VALUES

|                       |                                       |
|-----------------------|---------------------------------------|
| OSHA PEL (1994)       |                                       |
| [1,2,3-Propanetriol]  | TWA 15 mg/m <sup>3</sup> (total dust) |
| ACGIH TLV (2003)      |                                       |
| [1,2,3-Propanetriol]  | TWA 10 mg/m <sup>3</sup>              |
| EN LIMIT (2000/39/EN) |                                       |
| Not established       |                                       |

## EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls

Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection

Use with local exhaust ventilation, when in long use.

Hand Protection

Not required, but wear safety gloves, if necessary.

Eye Protection

Not required, but wear safety glasses, if necessary.

Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

Environmental Exposure Controls

Not established

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

|                                       |                               |
|---------------------------------------|-------------------------------|
| Physical state                        | Liquid                        |
| Odor                                  | None                          |
| pH                                    | (purple) 2 (other colors) 7~9 |
| Boiling Point / Boiling Range         | No data available             |
| Flash Point                           | Not applicable (closed cup )  |
| Explosive Properties                  | No data available             |
| Relative Density (g/cm <sup>3</sup> ) | 1.2~1.3 g/cm <sup>3</sup>     |
| Solubility [ Water ]                  | soluble                       |

## **MATERIAL SAFETY DATA SHEET**

### **10. STABILITY AND REACTIVITY**

|                                              |                   |
|----------------------------------------------|-------------------|
| CONDITIONS TO AVOID                          | No data available |
| STABILITY                                    | No data available |
| MATERIALS TO AVOID                           | No data available |
| HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS | No data available |

### **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity (RTECS : 2004-11)

[1,2,3-Propanetriol ]

|            |                           |                             |
|------------|---------------------------|-----------------------------|
| Oral       | LD <sub>50</sub> (rat)    | 12,600 mg/kg                |
| Inhalation | LC <sub>50</sub> (rat)    | >570 mg/ m <sup>3</sup> /1H |
| Skin       | LD <sub>50</sub> (rabbit) | >10 mg/ kg                  |

### **12. ECOLOGICAL INFORMATION**

|                           |                   |
|---------------------------|-------------------|
| ECOTOXICITY               | No data available |
| BIOACCUMULATIVE POTENTIAL | No data available |
| OTHER ADVERSE EFFECTS     | No data available |

### **13. DISPOSAL CONSIDERATIONS**

Comply with all federal,state,EU,national and local regulations.  
Do not dump this product into sewers , on the ground or into any body of water.

### **14. TRANSPORT INFORMATION**

|                       |      |
|-----------------------|------|
| UN CLASS              | None |
| UN Packing Group (PG) | None |
| UN NUMBER             | None |
| Proper Shipping Name  | None |

**MATERIAL SAFETY DATA SHEET****15. REGULATORY INFORMATION**

Refer to any other federal , state , EU , national and local regulations.

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.

TSCA STATUS : All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302) :  
Not applicable

SARA TITLE III: Not applicable

EC (2004/73/EC) : Not applicable

Please refer to any other EU, national and local measures.

**16. OTHER INFORMATION**

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