MSDS

MATERIAL SAFETY DATA SHEET

PRODUCT       CYANIDE ZINC BRIGHTNERS

1. INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS  None

2. PHYSICAL AND CHEMICAL MEASURES

1. PHYSICAL STATE  Liquid
2. APPEARANCE       Brown
3. DENSITY          1.040 - 1.08
4. SOLUBILITY IN WATER  Soluble in all proportion
5. ODOUR            Nothing characteristic
6. OTHER (pH)       4.5 - 6

3. HEALTH HAZARD IDENTIFICATION ACUTE TOXICITY

1  INHALATION  Mist or vapor may irritate respiratory tract.
2  INGESTION  Can cause irritation to mouth, throat and stomach.
3  SKIN        Can cause irritation.
4  EYES        Can cause irritation.
5  CHRONIC EXPOSURE  Chronic exposure effects not established.
6  CARCINOGEN REFERENCE  Not listed by NTP, LARC, OSHA

4. EMERGENCY AND FIRST AID MEASURES

1  INHALATION  Remove person to contaminated area, if breathing has stopped, resuscitate and administer oxygen if available. Seek immediate medical attention.
2  INGESTION  Never give anything by mouth to an unconscious person, obtain immediate medical attention.
3  EYES       Flush eyes with plenty of water, holding lids a part to ensure flushing of entire surface to prevent relieve irritation, if irritation persists, seek medical attention.
4  SKIN       Immediately wash contaminated skin with plenty of water, remove contaminated clothing and footwear. If irritation continues, seek medical attentions.

5. FIRE FIGHTING MEASURES

1  FLASH POINT C  Not Known
2 **EXTINGUISING MEDIA**  
Water fog or spray, dry extinguishing media, carbon dioxide, chemical foam

3 **SPECIAL FIRE FIGHTING PROCEDURES**  
Use full protective clothing & self contained breathing apparatus, keep containers cool to prevent rupture and release of material.

4 **UNUSUAL FIRE AND EXPLOSION HAZARD**  
Heating dried product may generate toxic and flammable phosgene.

### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes and clothing. Contain spill and soak up in suitable absorbent shovel into plastic containers and covers Dispose of in accordance with local and state regulations.

### 7. HANDLING AND STORAGE

**HANDLING**  
No special measures necessary provided the product is used correctly

**STORAGE**  
Store in cool dry place. Keep away from oxidizers. Loosen cover cautiously when opening. Keep container closed when not in use. Keep only in original containers. Store above freezing temperature

### 8. PERSONAL PROTECTIVE EQUIPMENT

1 **VENTILATION**  
Local exhaust recommended.

2 **RESPIRATOR**  
Use Niosh approved respirator when air concentration is greater than the TLV or PEL. Use cartridge filter for acid mist

3 **EYE PROTECTION**  
Chemicals safety goggles / face shield.

4 **GLOVES**  
Neoprene / Natural rubber.

5 **OTHER PROTECTIVE CLOTHINGS**  
Chemically resistant cover alls, hat & shoes or boots

6 **GENERAL SAFETY AND HYGIENE MEASURES**  
Handle in accordance with good industrial and hygiene measures. Emergency eye wash and safety shower should be available. Wash thoroughly after handling.

7 **ADDITIONAL INFORMATION**  
None

### 9. STABILTY AND REACTIVITY DATA

1 **STABILITY**  
Stable
2 CONDITIONS TO AVOID
Stable under normal conditions.

3 INCOMPATABILITY
(Oxidizers.
(Material to avoid)

4 HAZARDOUS
Toxic oxides of nitrogen, sulphur, carbon, Phosgene and DECOMPOSITION
miscellaneous.

5 HAZARDOUS
Will not occur POLYMERIZATION

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