

MATERIAL SAFETY DATA SHEET

GRAUER & WEIL (INDIA) LIMITED

Akurli Road, Kandivli (East), Mumbai - 400 101
Tel : 91-22-56993000 • Fax : 91-22-56993010/11 • E-mail : hq@growel.com

PRODUCT NAME : MICROMIST L

I. HAZARDOUS INGREDIENTS

HEXAVALENT CHROME CONTAINING COMPOUND (TS)

II. PHYSICAL PROPERTIES

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|------------------------|---|---------------------------|
| 1. APPEARANCE | : | PALE YELLOW LIQUID |
| 2. SPECIFIC GRAVITY | : | 1.100 – 1.150 |
| 3. SOLUBILITY IN WATER | : | SOLUBLE IN ALL PROPORTION |
| 4. ODOUR | : | NOTHING CHARACTERISTIC |
| 5. OTHER (pH) | : | 8 - 11 |

III. FIRE AND EXPLOSION HAZARD DATA

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|---------------------------------------|---|---|
| 1. FLASH POINT °C | : | NONE |
| 2. EXTINGUISHING MEDIA | : | WATER FOG OR SPRAY/CARBON DIOXIDE/FOAM |
| 3. SPECIAL FIRE FIGHTING PROCEDURES | : | WEAR NIOSH APPROVED FULL PROTECTIVE CLOTHING & SELF-CONTAINED BREATHING APPARATUS. KEEP CONTAINERS COOL TO PREVENT RUPTURE AND RELEASE OF MATERIAL. |
| 4. UNUSUAL FIRE AND EXPLOSION HAZARDS | : | NOT FLAMMABLE, BUT IF INVOLVED IN A FIRE MAY GENERATE TOXIC OXIDES OF CARBON, NITROGEN AND MISCELLANEOUS ORGANIC VAPORS. STRONG OXIDIZER. |

IV. HEALTH HAZARD DATA

EFFECTS OF ACUTE EXPOSURE :

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| 1. INHALATION | : | DUST MAY CAUSE ULCERATION AND PERFORATION OF RESPIRATORY SYSTEM WITH POSSIBLE RISK OF LUNG CANCER. |
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2. INGESTION : CAN CAUSE SEVERE BURNS TO MOUTH, THROAT, ESOPHAGUS, AND STOMACH. MATERIAL IS A SYSTEMIC POISON TO KIDNEYS, LIVER AND GASTROINTESTINAL TRACT. TOXIC EFFECT MAY NOT APPEAR IMMEDIATELY. MAY BE FATAL.
3. SKIN : MAY CAUSE BURNS AND "CHROME SORES" SKIN ABSORPTION MAY LEAD TO KIDNEY FAILURE.
4. EYES : CAUSES SEVERE BURNS WITH DAMAGE TO EYES AND POSSIBLE BLINDNESS.
5. CHRONIC EXPOSURE : MAY CAUSE SENSITIZATION OF SKIN, ULCERATION OF RESPIRATORY TRACT AND POSSIBLY LUNG CANCER.
6. CARCINOGEN REFERENCE : CHROMIUM(VI) : HUMAN POSITIVE IARC 23, 205, 80

V. EMERGENCY AND FIRST AID PROCEDURES

1. INHALATION : REMOVE PERSON FROM 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. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR. IF SWALLOWED GIVE LARGE AMOUNTS OF WATER AND INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
3. EYES : FLUSH EYES WITH PLENTY OF WATER. HOLDING LIDS APART TO ENSURE FLUSHING OF ENTIRE SURFACE TO PREVENT OR RELIEVE IRRITATION. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
4. SKIN : IMMEDIATELY WASH CONTAMINATED SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CLOTHING BEFORE REUSE. DISCARD FOOTWEAR IF IT CAN NOT BE DECONTAMINATED. IF IRRITATION CONTINUES, SEEK MEDICAL ATTENTION.

VI. PRECAUTION FOR SAFE HANDLING AND USE

1. SPILL PROCEDURES : AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR PROTECTIVE EQUIPMENT (SEE SECTION VII). DO NOT BREATHE MIST OR VAPORS. CONTAIN SPILL AND SOAK UP IN SUITABLE ABSORBENT. SHOVEL UP INTO PLASTIC-LINED STEEL CONTAINERS AND COVER. TREAT WITH REDUCING AGENT AND NEUTRALIZE. KEEP RESULTANT SLURRY OR SOLUTION OUT OF SEWER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND

NATIONAL REGULATIONS.

2. STORAGE AND HANDLING PRECAUTION : STORE IN COOL & DRY PLACE (PREFERABLY WITHIN 25-35⁰C UNDER CLOSED CONDITION TO AVOID ANY CONTAMINATIONS). AVOID WOODEN FLOORING. KEEP AWAY FROM COMBUSTIBLES, ORGANIC MATERIALS AND REDUCING AGENTS. LOOSEN COVER CAUTIOUSLY WHEN OPENING.
3. ADDITIONAL INFORMATION : STORE ABOVE FREEZING TEMPERATURE.

VII. CONTROL MEASURES

1. VENTILATION : LOCAL EXHAUST RECOMMENDED.
2. RESPIRATOR : USE NIOSH APPROVED RESPIRATOR WHENEVER NECESSARY. USE CARTRIDGE FILTER FOR ACIDIC DUST.
3. EYE PROTECTION : CHEMICAL SAFETY GOGGLES / FACE SHIELD
4. GLOVES : NEOPRENE
5. OTHER PROTECTIVE CLOTHINGS : CHEMICALLY RESISTANT COVERALLS, HAT & SHOES OR BOOTS. IF CLOTHING BECOMES CONTAMINATED WASH OFF IMMEDIATELY. SPONTANEOUS IGNITION MAY OCCUR ON CONTACT WITH CLOTH OR PAPER.
6. WORK HYGENIC PRACTICES : EMERGENCY EYE WASH AND SAFETY SHOWER SHOULD BE AVAILABLE. WASH THOROUGHLY AFTER HANDLING.
7. DISPOSAL CONSIDERATIONS : DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL REGULATIONS. FOR MAJOR SPILLS CONSULT GRAUER & WEIL (I) LTD., FOR NECESSARY ACTION. WASH THOROUGHLY THE EMPTY PACKING MATERIAL / DRUM / CARBOUYS AND COLLECT THE WASHINGS IN SUITABLE CONTAINERS & DISPOSE THE SAME IN ACCORDANCE TO THE ABOVE SPECIFIED TERMS AND CONDITIONS

VIII. REACTIVITY DATA

1. STABILITY : STABLE
2. CONDITIONS TO AVOID : STABLE UNDER NORMAL CONDITIONS. SEE INCOMPATIBILITY INFORMATION.
3. INCOMPATIBILITY (MATERIALS TO AVOID) : COMBUSTIBLES, ORGANIC MATERIALS, REDUCING AGENTS AND ALKALINE MATERIALS.

4. HAZARDOUS DECOMPOSITION : TOXIC OXIDES OF CARBON, NITROGEN PRODUCTS AND MISCELLANEOUS ORGANIC VAPORS.
5. HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

IX. ADDITIONAL INFORMATION

NA : Not Applicable	PEL : OSHA Permissible Exposure Limit
NI : Not Relevant Information Available	TLV : ACGIH Threshold Limit Value
T.S : Trade Secret as per 29 CFR 1910.1200	NTP : National Toxicology Programme
CAS : Chemical Abstract Service	IARC : Int'l Agency for research on cancer C

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