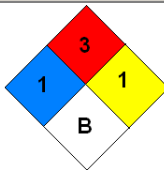





MATERIAL SAFETY DATA SHEET

| 1. PRODUCT AND COMPANY IDENTIFICATION | | | | |
|--|---|--|----------------------|------------------------|
| Trade Name | MET-L-GARD Ultra-Thin 50 | | | |
| Manufacturer/Supplier | ITW Chemin, ITW INDIA LIMITED | | | |
| Address | Plot No: 34-37, Phase- 2, IDA, APIIC, Pashamylaram, Medak Dist- 502307, INDIA | | | |
| Phone Number | +91 8455 224700/01 | | | |
| Fax Number | +91 8455 224705 | | | |
| Emergency Cell Number | +91-9000031515 | | | |
| E-Mail | chemininfo@itwchemin.com | | | |
| Website | www.itwchemin.com | | | |
| 2. COMPOSITION/INFORMATION ON THE COMPONENTS | | | | |
| No Hazardous components as per OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200 | | | | |
| | Component Name | CAS# | Concentration | Exposure Limits |
| | Mineral Solvent | 64742-82-1 | 90 - 95% | None established |
| | Solvent de-waxed residue oil | 64742-62-7 | 1 - 5% | ACGIH: TWA 5mg/m3 |
| | Paraffinic derivative | - | 5 - 10% | None established |
| 3. HAZARD IDENTIFICATION | | | | |
| | Statement of hazardous/dangerous nature | Hazardous substance. Flammable Liquid. | | |
| | Health Effects - Eyes | Irritant, not likely to cause permanent damage. | | |
| | Health Effects - Skin | Mild to severe skin irritant, Prolonged contact can cause redness, swelling and cracking of skin. | | |
| | Health Effects - Ingestion | Swallowing may have the following effects: - irritation of mouth, throat and digestive tract. Nausea. | | |
| | Health Effects - Inhalation | Little, if any, effects caused by inhalation of the vapors from this product. In high concentrations, Head ache, Giddiness, Mental confusion, Nausea and irritation of upper respiratory passages. | | |
| | HMIS |  | | |
| 4. FIRST AID MEASURES | | ACTIONS | | |
| | Eye contact | Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists. | | |
| | Skin contact | Wash skin with soap and water. Apply a reconditioning skin cream. | | |
| | Ingestion | Wash out mouth with water. Do not induce vomiting. Obtain medical attention. | | |
| | Inhalation | Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration .Call for prompt medical attention. | | |

MATERIAL SAFETY DATA SHEET

| 5. FIRE FIGHTING MEASURES | | |
|---|---|--|
| | Extinguishing Media | Use foam, dry chemical or carbon dioxide. |
| | Unsuitable Extinguishing Media | Do not use water jet. |
| | Special Hazards of Product | This product may give rise to hazardous fumes in a fire. |
| | Protective Equipment for Fire-Fighting | Wear self-contained breathing apparatus. |
| 6. ACCIDENTAL RELEASE MEASURES | | |
| | Personal Precautions | Material can create slippery conditions underfoot. |
| | Environmental Precautions | Try to prevent the material from entering drains or rivers. |
| | Spillages | Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Prevent entry into sewers and waterways. |
| 7. HANDLING AND STORAGE | | |
| | Handling | Keep away from heat, sparks and Flame. |
| | Storage | Store in well – ventilated area and in accordance with local regulations regarding flammable liquid. |
| 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | | |
| | Engineering Control Measures | Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely. |
| | Respiratory Protection | Respiratory protection not normally required. If operating conditions create air borne Concentrations that are exceeding the exposure standards, the use of an approved Respirator is recommended. |
| | Hand Protection | Avoid contact with skin or clothing. Wearing impervious protective clothing including gloves can minimize skin contact. Protective clothing made from neoprene, nitrile or n- butyl rubber is suitable in these applications. |
| | Eye Protection | Avoid eye contact. Chemical safety goggles if there is a risk of eye contact. |
| | Body Protection | Normal works wear. |
| 9. PHYSICAL AND CHEMICAL PROPERTIES | | |
| | Physical State | Liquid. |
| | Color | Dark Amber. |
| | Odor | Mild petroleum base odor. |
| | Vapor Density & vapor pressure Rate of evaporation | > 1 and < 1 respectively. < 1(Bu Ac = 1) |
| | Flash Point (PMCC) (°C) | > 38. |
| | Solubility in Water (kg/m3) | Not Miscible. |
| | Density | 0.780 – 0.820 (measured as kg/liter) |
| | Auto-flammability (°C) | Above 150. |
| | Viscosity (cSt) | Mobile liquid at ambient temperatures. (1.3 ± 0.5 cSt @37.8C) |
| | NOTE: | <i>The above data are typical values and cannot be inferred as specifications</i> |

MATERIAL SAFETY DATA SHEET

| 10. STABILITY AND REACTIVITY | | | | | | | | |
|--------------------------------------|--|-----------|--|-------|------------------|---------------------|---|---|
| | Stability | | Stable under normal conditions. | | | | | |
| | Conditions to Avoid | | High temperatures. | | | | | |
| | Materials to Avoid | | Strong oxidizing agents. Strong acids. | | | | | |
| | Hazardous Decomposition Products | | Carbon monoxide, carbon dioxide, aldehydes and ketones may be formed. | | | | | |
| 11. TOXICOLOGICAL INFORMATION | | | | | | | | |
| | Routes of exposure | | Low order of acute toxicity. Expected Oral LD50 > 2000mg/KG | | | | | |
| 12. ECOLOGICAL INFORMATION | | | | | | | | |
| | Mobility | | This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems, and all bodies of water. | | | | | |
| | Persistence/Degradability | | The product is expected to be partially or slowly biodegradable. | | | | | |
| 13. DISPOSAL | | | | | | | | |
| | Product Disposal | | Place contaminated materials in disposable containers and. Dispose of in accordance with all applicable local and national regulations. | | | | | |
| | Container Disposal | | Labels should not be removed from containers until they have been cleaned. Dispose of containers with care. Do not incinerate closed containers. | | | | | |
| 14. TRANSPORT INFORMATION | | | | | | | | |
| | Regulation | UN Number | Proper shipping name | Class | Subsidiary class | Packing group | Label | Additional information |
| | ADG Classification | UN 1993 | Flammable liquid | 3 | Not determined | III |  | Haz chem. Code : 3(y) Emergency procedure guide : 3 A1 |
| | IMDG Classification | UN 1993 | Flammable liquid | 3 | Not determined | III |  | Not determined |
| | IATA Classification | UN 1993 | Flammable liquid | 3 | Not determined | III |  | Not determined |
| 15. REGULATORY INFORMATION | | | | | | | | |
| | In gradients as per Standard for the uniform scheduling of drugs and poisons | | | | | No listed substance | | |
| | In gradients as per Standard for the uniform scheduling of drugs and poisons. | | | | | No listed substance | | |
| | AUSTRALIA INVENTORY(AICS) | | | | | In compliance | | |
| | CANADA INVENTORY(DSL) | | | | | In compliance | | |
| | CHINA INVENTORY(IECS) | | | | | Not listed | | |
| | JAPAN INVENTORY(ENCS) | | | | | Not listed | | |

MATERIAL SAFETY DATA SHEET

| 16. OTHER INFORMATION | | |
|------------------------------|------------------------------------|--|
| | Product Use | For industrial use only. Rust Preventive Oil |
| | MSDS previous issued | Oct - 2012/ RP16 |
| | MSDS data revised, Ref. No. | N.A |
| | Legal disclaimer | The above information is believed to be correct but does not purport to be all-inclusive and shall be only used as guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. |