

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product Name | MAN-SAN |
| Manufacturer's Product Code | 9001 |
| Other Names | Food grade calcium-based lubricant aerosol. |
| Major Recommended Uses | As a multi-purpose food-grade lubricant. |
| Supplier's Details | Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755 |
| Date of Issue | Feb 2010 |

SECTION 2 – HAZARDS IDENTIFICATION

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| Hazard Classification | Not classified as hazardous according to the criteria of ASCC. |
| Dangerous Goods Class & Sub-risk | Class 2, no sub-risk. (Flammable aerosol propellant.) |
| Poisons Schedule | None allocated. |
| Risk Phrases | Not applicable. |
| Safety Phrases | Not applicable. |

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | | |
|--|--------|------------|
| Chemical Entity | CAS No | Proportion |
| 'INGREDIENTS DETERMINED NOT TO BE HAZARDOUS' | | 100% |

SECTION 4 – FIRST AID MEASURES

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| Skin | Wipe away material with a cloth and wash with soap and water. Seek medical attention if irritation develops. Clean clothing and shoes. |
| Eye | Rinse the eyes with water. Remove any contact lenses and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops. |
| Inhalation | Not usually a hazard. Remove victim to fresh air and seek medical attention if respiratory irritation develops or if breathing becomes difficult. |
| Ingestion | Give water if swallowed, but do not induce vomiting. Give water again if vomiting occurs. Seek medical attention if discomfort occurs. Never give anything by mouth to an unconscious person. |
| First Aid Facilities | An eye wash station should be available for easy rinsing if eye contact occurs. |
| Advice to Doctor | In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal. |
| Additional Information | Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis, and pre-existing nervous system disorders. Target organs: Central nervous system, heart and liver. The primary routes of entry into the body are inhalation and absorption. The primary routes of exposure are skin and eye contact. |

SECTION 5 – FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media | Use foam, dry chemical, CO2 or water spray to extinguish fire. Extinguishing media should be chosen based on the nature of the surrounding fire. |
| Special Protective Equipment and Precautions for Fire Fighters | Fire fighters should wear self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting. |
| Fire/Explosive Hazards | Spills may be slippery. Vapours are heavier than air and may travel to distant and/or low-lying sources of ignition and flashback. Product may produce a floating fire hazard as liquid floats on water. Flame extension is >900mm, burnback is 0mm. |
| Hazchem Code | 2Y |

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

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| Spills may be slippery | |
| Methods and Materials for Containment and Clean Up | Due to the nature of the packaging, a large spill is unlikely. For a small spill, absorb with a damp cloth and rinse area into a sanitary sewer. No neutralising agent is required. |

SECTION 7 – HANDLING AND STORAGE

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| Precautions for Safe Handling | Observe precautions stated on product label, and follow industry safety regulations. Use with caution around heat, sparks, pilot lights, static electricity, and open flame. |
| Conditions for Safe Storage | Store material indoors at temperatures under 49°C. |

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Exposure Standards | None established for this product. |
| Engineering Controls | General ventilation is usually adequate. Local ventilation is recommended to control exposure from operations that can generate excessive levels of mists or vapours. |
| Personal Protective Equipment | Eye/Face Protection: Whilst none is required under normal conditions of use, safety glasses with sideshields should be worn if the method of application presents the likelihood of eye contact. Eye protection should conform with AS/NZS 1337- Eye Protectors for Industrial Applications. |
| Skin Protection | Neoprene or nitrile rubber gloves if repeated or prolonged skin contact is likely. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance. |
| Respiratory Protection | None required under normal conditions of use. If engineering controls are not effective in controlling airborne exposure then an approved organic vapour respirator suitable for protecting against airborne contaminants should be used. Reference should be made to AS/NZS 1715 and AS/NZS 1716. |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Creamy white, opaque, viscous liquid with no odour. |
| pH (100%) | Not applicable. |
| Boiling Point | 204°C |
| Vapour Density | 1.7 (Air = 1) |
| Evaporation Rate | 24.2 (Butyl acetate = 1) |
| Solubility in Water (g/L) | Negligible. |
| Specific Gravity | 0.84 at 25°C (Water = 1) |
| Flashpoint | >93°C |
| Flashpoint Method | Setaflash |
| Flashpoint Limits | UEL – 9.5%; LEL – 1.9% |
| Volatility by Volume | 16% |

SECTION 10 – STABILITY AND REACTIVITY

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| Stability | Stable. |
| Hazardous Polymerisation | Will not occur. |
| Conditions/Materials to Avoid | Strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide; mineral and organic acids, alkali and amines. Avoid heat, hot surfaces, sparks, and open flames. |
| Hazardous Decomposition Products | Oxides of carbon and calcium. |

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SECTION 11 – TOXICOLOGICAL INFORMATION

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| Health Effects | |
| Acute - Swallowed | May cause irritation with possible nausea, vomiting and diarrhoea. |
| Acute - Eye | Direct contact with eyes causes irritation seen as stinging, tearing and redness. |
| Acute - Skin | Not a problem in normal use, but irritation seen as itching and redness may occur for skin contact beyond the normal use pattern. Prolonged and/or repeated contact as from clothing wet with material may cause drying, defatting, and cracking of the skin. |
| Acute - Inhaled | Typically not a hazard, but under extreme conditions of mis-use respiratory irritation seen as coughing and sneezing may be seen. At low vapour concentrations, no harmful effects are expected. At high vapour concentrations, inhalation may cause central nervous system effects such as headache, dizziness, drowsiness, weakness, unconsciousness, and possible anaesthetic effects from central nervous system depression. |
| Chronic | On rare occasions, prolonged and repeated exposure to hydrocarbon or oil mist may cause lung inflammation. Chronic skin contact may promote dermatitis or oil acne in some individuals. Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis, and pre-existing nervous system disorders. The primary routes of entry into the body are inhalation and absorption. The primary routes of exposure are skin and eye contact |
| Target Organs | Central nervous system, heart and liver. |
| Product Contains Chemicals Listed as Carcinogens by | International Agency for the Research of Cancer (IARC): NO Other: NO |
| Lifetime mouse skin painting studies indicated that this product is NOT mutagenic or carcinogenic. | |
| Mineral Oil Mists derived from highly Refined Oils and Petroleum Distillates are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation, and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations at or near current work place exposure levels produced no significant toxicological effects. | |
| In long term studies (up to two years), no carcinogenic effects have been reported in any animal species tested. | |
| The Petroleum Distillates used are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. For this reason, they are NOT classified as cancer hazards: | |
| PETROLATUM | SKN-RBT TDLO: 100 mL/kg/30d-I IPT-MSE LD50: >50 g/kg |
| WHITE MINERAL OIL | ORL-RAT TDLo: 92 g/kg/92d-c ORL-RAT LD50: > 5,000 mg/kg SKN-RBT LD50: > 2,000 mg/kg EYE-RBT SDT: Non-irritating SKN-RBT SDT: Non-irritating BUEHLER GUINEA PIG SENSITIZATION TEST: Non-sensitizing SKN-RBT SUB-CHRONIC: 28-day; Non-irritating SKN-MSE CHRONIC: 104-week; No skin tumours at site of application MODIFIED AMES ASSAY (SALMONELLA TYPHIMURIUM): Negative IN-VITRO MSE LYMPHOMA ASSAY; Negative to no toxicity |
| HYDROCARBON AEROSOL PROPELLANT - Human volunteers exposed repeatedly to gases of similar hydrocarbon mixtures ranging from 250 to 1000 ppm exhibited no cardiac or pulmonary function abnormalities. [*REFERENCES: Vendor MSDSs & Registry of toxic effects of chemical substances, CCINFOWeb, 2007.] | |

SECTION 12 – ECOLOGICAL INFORMATION

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| No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. No biological limit allocated. | |
| Mobility | Negligible solubility in water. |

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and federal laws.

SECTION 14 – TRANSPORT INFORMATION

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| UN Number | 1950 |
| UN Proper Shipping Name | Aerosol |
| Transport Hazard Class | Classified as a DG Class 2 according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| Packaging Group | None allocated. |
| Hazchem Code | 2Y |

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SECTION 15 - REGULATORY INFORMATION



Poisons Schedule: None allocated

Flammable gas propellant

SECTION 16 – OTHER INFORMATION

Initial copy of 16-header MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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