

MATERIAL SAFETY DATA SHEET
(Prepared According to 29 CFR 1910.1200)

| | | | |
|--|--|--|--|
| SECTION 1 - PRODUCT IDENTIFICATION | | | |
| Trade Name MANDARIN MUSCLE HEAVY DUTY CLEANER AND DEGREASER | | Product Type Cleaner/degreaser | |
| SECTION 2 - HAZARDOUS INGREDIENTS | | | |
| CHEMICAL NAME/COMMON NAME | CAS NO. | PERCENT(optional) | TLV(Source) |
| Sodium Metasilicate | 6834-92-0 | | Not Established |
| d-Limonene | 5989-27-5 | | Not Established |
| 2-Butoxyethanol * | 111-76-2 | 1-5 | 50 ppm(skin)TWA (OSHA);20 ppm(skin)(ACGIH) |
| Sodium Tallate | 61790-45-2 | | Not Established |
| SARA HAZARD TITLE III,SECTION 313-CONTAINS THE STARRED INGREDIENT(S) AT THE INDICATED | | | |
| Other ingredients in this product are : <input checked="" type="checkbox"/> Less than 1% by weight or less than 0.1% for carcinogens <input checked="" type="checkbox"/> Not hazardous <input checked="" type="checkbox"/> Declared to be Trade Secret | | | |
| SECTION 3 - PHYSICAL DATA | | | |
| Boiling point(°F.) Near 212 | Specific Gravity(H2O=1.0) (± 0.005) 1.030 | pH (± 0.5) 13.0 | |
| Vapor Pressure(mm Hg) Unknown | Vapor Density(Air=1) Unknown | | |
| Solubility in water <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial) | | | |
| Evaporation Rate(vs. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same | | | |
| Appearance and Odor Light Orange Liquid, Citrus Odor | | | |
| SECTION 4 - FIRE AND EXPLOSION HAZARD DATA | | | |
| Flash Point(T.C.C.) °F. <input checked="" type="checkbox"/> None to Boiling | Flammable Limits Upper Unknown | Lower Unknown | |
| Extinguishing Media CO2, dry chemical, foam, water spray. | | | |
| Special Firefighting Procedures Do not enter confined fire-spaces without protective clothing and self-contained air supply. | | | |
| Unusual Fire and Explosion Hazards None known. | | | |
| SECTION 5 - REACTIVITY DATA | | | |
| Stability Stable | Incompatibility Strong oxidizers | | |
| Hazardous Decomposition Products Carbon monoxide and other unidentified organic gases may occur during incomplete combustion. | | | |
| SECTION 6 - HEALTH HAZARDS | | | |
| Primary Routes of Exposure <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other | | | |
| Signs and Symptoms of Overexposure (Acute) | Prolonged contact of concentrated product with skin and/or eyes will cause irritation. Swallowing may irritate mouth, throat or stomach. Possible vomiting or diarrhea may occur. Contains materials which penetrate skin readily. Ingestion, prolonged or widespread contact of product in its concentrated form may result in potentially harmful absorption. Nausea/dizziness may result from breathing vapors of concentrated product in enclosed/confined spaces, where inadequate ventilation may occur. | | |
| Signs and Symptoms of Overexposure(Chronic) None known | | | |
| Medical Conditions Aggravated by Overexposure None known | Carcinogen/Suspect Carcinogen Ingredients <input type="checkbox"/> NTP <input type="checkbox"/> OSHA <input type="checkbox"/> IARC <input checked="" type="checkbox"/> NONE | | |
| SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES | | | |
| Eyes | Flush immediately with water for at least 15 minutes. If persistent irritation occurs, call a physician. | | |
| Skin | Wash thoroughly with soap and water. | | |
| Ingestion | Drink large quantities of milk or water. Call a physician. | | |
| Inhalation | Not applicable | | |
| SECTION 8 - SPECIAL PROTECTION INFORMATION | | | |
| Respiratory Protection Not needed under normal conditions of use. | | | |
| Ventilation Requirements | <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other | | |
| Protective Gloves Rubber | Eye Protection Safety glasses/goggles | Other Protective Clothing Not required for normal use | |
| SECTION 9 - SPILL OR LEAK PROCEDURES | | | |
| Steps to be Taken if Released or Spilled Absorb with suitable absorbent. For large spills,absorb with suitable absorbent, then shovel into containers. | | | |
| Waste Disposal Methods Dispose of in accordance with applicable Federal, State and Local ordinances. | | | |
| SECTION 10 - STORAGE AND HANDLING INFORMATION | | | |
| Precautions to be Taken in Handling and Storage Avoid contact with skin eyes and clothing. Wash thoroughly after handling. Use with adequate ventilation. | | | |

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form(as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the product,if diluted, under conditions of ordinary use.

MM

DATE PREPARED June 26, 2003