

57205-CL

M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ENGEL METAL LUBE & CLEANER
IDENTIFICATION NUMBER: FPRENMTLBCLN
PRODUCT USE/CLASS :

DATE PRINTED: 07/14/03

SUPPLIER:

ENGEL INDUSTRIES
8122 REILLY AVE.
ST. LOUIS, MO 63111

MANUFACTURER:

Camie-Campbell
9225 Watson Industrial Park
St. Louis, MO 63126

EMERGENCY TELEPHONE: 800-424-9300
24 HOUR EMERGENCY PHONE

PREPARER: JLM, PHONE: 314/968-3222, PREPARE DATE: 07/14/03
REPLACES DATE: 07/14/03

7/14/03

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| ITEM | CHEMICAL NAME | CAS NUMBER | WT/WT % LESS THAN |
|------|-------------------------------------|------------|----------------------|
| 01 | ALIPHATIC HYDROCARBON-STODDARD TYPE | 8052-41-3 | 25.0 % |
| 02 | SEV. HYDRO HEAVY NAPHTHENIC DIST. | 64742-52-5 | 25.0 % |
| 03 | SEV. HYDRO LIGHT NAPHTHENIC DIST. | 64742-53-6 | 25.0 % |
| 04 | ISOBUTANE | 75-28-5 | 20.0 % |
| 05 | PROPANE | 74-98-6 | 15.0 % |
| 06 | PRIMARY AMYL ACETATE | 628-63-7 | 5.0 % |
| 07 | ZINC DIALKYLDITHIOPHOSPHATE | 4259-15-8 | 5.0 % |

| EXPOSURE LIMITS | | | | | | |
|-----------------|--------------|--------------|--------------|-------------|--------------------|------|
| ACGIH | | | | | | |
| ITEM | TLV-TWA | TLV-STEL | PEL-TWA | PEL-CEILING | COMPANY TLV-TWA | SKIN |
| 01 | 100 ppm | N.E. | 500 ppm | N.E. | N.E. | NO |
| 02 | 5 mg/m3 MIST | 10mg/m3 MIST | 5 mg/m3 MIST | N.E. | N.E. | NO |
| 03 | 5 mg/m3 MIST | 10mg/m3 MIST | 5 mg/m3 MIST | N.E. | N.E. | NO |
| 04 | N.E. | N.E. | N.E. | N.E. | 1000 ppm | NO |
| 05 | 2500 PPM | N.E. | 1000 ppm | N.E. | N.E. | NO |
| 06 | 50 ppm | 100 ppm | 100 ppm | N.E. | N.E. | NO |
| 07 | N.E. | N.E. | N.E. | N.E. | N.E. | NO |

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Keep from reach of children. Do not puncture, incinerate, or place aerosol product containers in compactors. Containers

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SECTION 3 - HAZARDS IDENTIFICATION

of this material may be hazardous when emptied since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Can cause severe irritation, redness, tearing, blurred vision.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can cause moderate irritation defatting, dermatitis.

EFFECTS OF OVEREXPOSURE - INHALATION: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

EFFECTS OF OVEREXPOSURE - INGESTION: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

FIRST AID - SKIN CONTACT: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Get medical attention if irritation persists.

FIRST AID - INHALATION: Remove individual to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm and quiet. Get medical attention.

FIRST AID - INGESTION: Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156 F
(PENSKEY-MARTENS C.C.)

LOWER EXPLOSIVE LIMIT: 0.8 %
UPPER EXPLOSIVE LIMIT: 9.5 %

AUTOIGNITION TEMPERATURE: N.D.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

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SECTION 5 - FIRE FIGHTING MEASURES

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from material handling point. For aerosol products - exposure to temperatures over 130F may cause containers to burst releasing highly flammable gas.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires. Keep fire exposed containers cool with water fog.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition & ventilate area. Persons not properly equipped should be excluded from area. - Stop spill at source - prevent spreading. Avoid inhalation of vapors. Avoid skin contact with liquid. Soak up on absorbent material and place into proper container for disposal. Use non-sparking scoops for flammable materials. Clean walking surfaces thoroughly to reduce slipping hazard.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Containers of this material may be hazardous when emptied, since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze or use welding torch on containers. Intentional misuse by deliberately concentrating and inhaling the vapors from this product may be harmful or fatal.

STORAGE: Do not store above 120F. Do not store in direct sunlight. Keep away from heat sources, open flame, pilot lights, sparks, and other sources of ignition. Do not store above 120F. Do not store in direct sunlight.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide sufficient mechanical ventilation (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

RESPIRATORY PROTECTION: If work place exposure limits of product or any component is exceeded, use a NIOSH/MSHA approved respirator. Consult your safety equipment supplier for recommendations.

SKIN PROTECTION: Wear impervious gloves if method of use involves skin contact with product. Consult your safety supply vendor for glove recommendations.

EYE PROTECTION: Wear safety glasses at minimum, more extensive protection

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

may be necessary depending on how the product is to be used.

OTHER PROTECTIVE EQUIPMENT: Wear impervious clothing if bodily exposure is anticipated. Consult your safety supply vendor for recommendations.

HYGIENIC PRACTICES: Wash hands before eating or smoking. Smoke in designated areas only. Remove and launder clothing if contaminated.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|--------------------|------------------|------------------------|
| BOILING RANGE | : -44 - 551 F | VAPOR DENSITY | : Is heavier than air |
| ODOR | : BANANA | ODOR THRESHOLD | : N.D. |
| APPEARANCE | : LIGHT AMBER LIQ. | EVAPORATION RATE | : Is faster than Butyl |
| SOLUBILITY IN H2O | : NEGLIGIBLE | | Acetate |
| FREEZE POINT | : N.D. | SPECIFIC GRAVITY | : 0.6459 |
| VAPOR PRESSURE | : N.D. | pH @ 0.0 % | : N.A. |
| PHYSICAL STATE | : LIQUID | VISCOSITY | : N.D. |
| COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D. | | | |

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, sparks, welding arcs, open flame, pilot lights, static electricity or other source of ignition.

INCOMPATIBILITY: alkali, alkaline earth metals, strong inorganic acids, nitric acid, sulfuric acid, strong oxidizers,

HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide and carbon dioxide, various hydrocarbons, phosphorous oxide, sulfur dioxide, alkyl sulfides, mercaptans, hydrogen sulfides,

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

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SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Aerosols

DOT TECHNICAL NAME:

DOT HAZARD CLASS: 2.1

HAZARD SUBCLASS: NONE

DOT UN/NA NUMBER: UN1950

PACKING GROUP: NONE

RESP. GUIDE PAGE: 126

ADDITIONAL INFORMATION:: For domestic ground and air shipment this product may be shipped as a Consumer Commodity ORM-D. Outer cartons must have the ORM-D or ORM-D AIR designation. (our original cartons are preprinted with the ORM-D designation for ground shipment)

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD FIRE HAZARD PRESSURIZED GAS HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| ----- CHEMICAL NAME ----- | CAS NUMBER | WT/WT % IS LESS THAN |
|-----------------------------|------------|----------------------|
| ZINC DIALKYLDITHIOPHOSPHATE | 4259-15-8 | 5.0 % |

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

| ----- CHEMICAL NAME ----- | CAS NUMBER |
|------------------------------|------------|
| No information is available. | |

INTERNATIONAL REGULATIONS: AS FOLLOWS -

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