



A Milacron Company

Dear Customer:

Enclosed in the **REVISED** Material Safety Data Sheet for our product:

TL-4 DME THINNER LUBRICATOR

The products we distribute are not normally hazardous in their natural state. However, steel does contain elements deemed by OSHA to be hazardous when released by manufacturing, such as brazing, burning, grinding, sawing or welding, etc. Failure to control dust and fumes can result in chronic health problems.

We believe the information, supplied by the Manufacturer, on the enclosed MSDS to be accurate; however, D-M-E makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability for the information so presented.

Should you require additional information, please call or write the Manufacturer listed on the MSDS.

Sincerely yours,

D-M-E Company
Director of Operations
Ken Jasina

Revised: December, 1999

MATERIAL SAFETY DATA SHEET**SECTION I - MATERIAL IDENTIFICATION AND USE**

PRODUCT NAME/IDENTIFIER

#TL4 Thinner & Lubricator

MANUFACTURER

D-M-E Company
29111 Stephenson Highway
Madison Heights, Michigan

EMERGENCY TELEPHONE NO.

EXXON Chemical Americas
Chemtrec

1-800-726-2015

1-800-424-9300

TRADE NAME

#TL4 Thinner & Lubricator

CHEMICAL NAME

Mixture

PRODUCT USE

Thinner & Lubricator

SECTION II - HAZARDOUS INGREDIENTS OF PRODUCT

HAZARDOUS INGREDIENT

Naphtha

SYNONYMS

Mineral Spirits

CONCENTRATION %

66.6

CAS/RTECS NUMBERS

64742-48-9

EXPOSURE LIMITS

ACGIH TLV-TWA = None Given

OSHA PEL = None Given

LD50/LC50/SPECIES/ROUTE

None Given

HAZARDOUS INGREDIENT

Refined Petroleum Oil

SYNONYMS

Lubricating Oil

CONCENTRATION %

33.3

CAS/RTECS NUMBERS

64741-88-4

64742-65-0

64741-89-5

EXPOSURE LIMITS

ACGIH TLV-TWA = 5 mg/m³OSHA PEL = 5 mg/m³

LD50/LC50/SPECIES/ROUTE

LD50:>5g/Kg (rat/oral)

HAZARDOUS INGREDIENT

Solvent Yellow #3

SYNONYMS

None Given

CONCENTRATION %

Negligible

CAS/RTECS NUMBERS

97-56-3

EXPOSURE LIMITS

Not Established

LD50/LC50/SPECIES/ROUTE

N/A

SECTION III - PHYSICAL DATA

PHYSICAL STATE (gas, liquid, or solid)	LIQUID
APPEARANCE and ODOR	Red, Slight Sulfurized Odor
BOILING POINT	Not Established
MELTING POINT (deg. C)	Not Established
VAPOR PRESSURE	Not Established
WATER SOLUBILITY	NONE
VAPOR DENSITY (air=1)	Not Established
EVAPORATION RATE	Not Established

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY	Aspirated Liquid May Ignite When In Contact With A Flame
MEANS OF EXTINCTION	Dry Chemical, Sand, Or Flood With Water From A Distance
FLASH POINT (deg C) AND METHOD	NA
UEL (% by vol.)	NA
LEL (% by vol.)	NA
AUTO IGN. TEMP.	NA
HAZARDOUS COMBUSTION PRODUCTS	Possible unburned vapors
EXPLOSION SENSITIVITY TO IMPACT	NA
EXPLOSION SENSITIVITY TO STATIC	NA

SECTION V - TOXICOLOGICAL PROPERTIES OF MATERIAL

SUBSTANCE	Naphtha
PRIMARY ROUTES OF ENTRY	INHALATION INGESTION CONTACT
TARGET ORGANS	LUNGS PARANASAL SINUS CENTRAL NERVOUS SYSTEM
SYMPTOMS/HEALTH EFFECTS	Frequent or prolonged use may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition. High vapor/aerosol concentrations (>1,000 ppm) are irritating to the eyes and the respiratory tract. May cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.
CARCINOGENICITY	IARC: Not listed. MAK: Not listed. NIOSH: Not listed. NTP: Not listed.

ACGIH: Not listed.

OSHA: Not listed.

SUBSTANCE
PRIMARY ROUTES OF ENTRY

TARGET ORGANS
SYMPTOMS/HEALTH EFFECTS

Refined Petroleum Oil

INHALATION
CONTACT
NONE GIVEN

Low risk of inhalation at ambient temperatures. Mists or fumes may cause drowsiness, dizziness, headache, nausea, lung irritation, or chemical pneumonitis.

Prolonged and/or frequent contact may cause drying, cracking (dermatitis) or folliculitis.

CARCINOGENICITY

IARC: Not listed.
MAK: Not listed.
NIOSH: Not listed.
NTP: Not listed.
ACGIH: Not listed.
OSHA: Not listed.

SUBSTANCE
PRIMARY ROUTES OF ENTRY

Solvent Yellow #3

INHALATION
INGESTION
CONTACT
LUNGS

TARGET ORGANS
SYMPTOMS/HEALTH EFFECTS

Inhalation of dust may irritate respiratory tract. Contact with eyes may result in severe irritation. Contact with skin may result in irritation. Ingestion may result in gastric disturbances.

CARCINOGENICITY

IARC: Listed as an animal carcinogen. Possible mutagenic hazard based on positive Ames test.
MAK: Not listed.
NIOSH: Not listed.
NTP: Not listed.
ACGIH: Not listed.
OSHA: Not listed.

SECTION VI - FIRST AID MEASURES

SKIN CONTACT Immediately flush the contaminated skin with soap and water. If product is beneath clothing, immediately remove the clothing and flush the skin with water. If any irritation persists after washing, get medical attention.

INHALATION If a person breaths large amounts of this product, move the exposed person to fresh air at once. If breathing has stopped, perform CPR. Keep the affected person warm and at rest. Get medical attention as soon as possible.

INGESTION If this product has been swallowed, get medical attention immediately.

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY	YES
CONDITIONS OF REACTIVITY	N/A
INCOMPATIBILITIES	Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	CO, CO ₂ , Traces of oxides, of sulfur, phosphorus, zinc, calcium, magnesium.

SECTION VIII - PROTECTIVE MEASURES

- RESPIRATORY** Use NIOSH/MSHA approved particulate respirators to prevent overexposure by inhalation. .
- EYES** Wear safety glasses or chemical splash goggles during handling.
- GLOVES** Wear impervious gloves during routine handling.
- FOOTWEAR** Wear safety footwear.
- CLOTHING** Wear body covering work clothing at all times. Change clothing daily if it is contaminated with product or its by-products.
- WORK/HYGIENIC PRACTICES** Wash hands thoroughly and often after handling powder or its by-products. Keep work area clean. Do not eat or drink in work areas. Launder protective clothing and gloves as required..
- OTHER PROTECTIVE EQUIPMENT** Safety showers and eye wash stations should be present in the work area.
- ENGINEERING CONTROLS** Use an adequate local exhaust ventilation system for any operations likely to produce mist, or fume in order to maintain airborne concentrations below occupational exposure limits as specified in Section II.
- LEAK AND SPILL PROCEDURES** Approved respiratory equipment, protective clothing, gloves, and safety glasses should be worn to prevent contact or inhalation during the cleanup of product spills. Collect material by wet sweeping, dry sweeping with a sweeping compound, or by vacuum cleaning with an explosion proof apparatus equipped with a high efficiency particulate air (HEPA) filter. Salvage material for on-site reuse or recycling, or contact the appropriate local government authority for guidance on acceptable waste storage and disposal methods.
- STORAGE REQUIREMENTS** Keep product dry and in closed containers. Do not store near mineral acids..

SECTION IX - TRANSPORTATION DATA

PRODUCT NAME/IDENTIFIER
 TRADE/SHIPPING NAME
 DOT ID/EMERGENCY RESPONSE NUMBER

#TL4 Thinner - Lubricator

NOT SPECIFIED/32

TRANSPORTATION**Less than 100 pounds or 45.4 kilograms:**

Can be shipped as a nonhazardous (nonregulated) material in quantities less than 100 pounds or 45.4 kilograms (the RQ of Nickel Metal limited to those pieces of the metal having a diameter smaller 100 micrometers or 0.004 inches).

Greater than 100 pounds or 45.4 kilograms:

If shipped in quantities greater than 100 pounds or 45.4 kilograms the product must be shipped and handled in the following manner:

PROPER SHIPPING NAME
 HAZARD CLASS
 IDENTIFICATION NUMBER
 LABELS REQUIRED
 PACKAGING EXCEPTIONS
 PACKAGING REQUIREMENTS

Petroleum Lubricating Oil
 Non-Hazardous
 None Assigned

NONE

NONE

49CFR Part 173.1300

(General safe shipping and transferring protocol).

NO LIMIT

MAXIMUM NET QUAN./PACKAGE
 WATER SHIPMENT REQUIREMENTS
 CARGO VESSEL

The material must be stowed either "on deck" or "under deck;" however, "under deck" should be used if available.

PASSENGER VESSEL

The material must be stowed either "on deck" or "under deck;" however, "under deck" should be used if available.

SECTION X - PREPARATION DATE OF MATERIAL SAFETY DATA SHEET

PREPARED BY:
 PHONE NUMBER
 DATE: Revised November 25, 1994
 D-M-E Company - Revised/Revised: March 22, 2000

Toxico Corporation
 (810)559-7800

The buyer assumes all risk in connection with use of the product. D-M-E Company assumes no responsibility or liability in connection with the information supplied on this sheet or for any damage or injury caused by the product if reasonable safety procedures are not followed as stipulated. D-M-E Company assumes no responsibility for injury or damage caused by abnormal use of the material even if reasonable safety procedures are followed. The information contained in this sheet is developed from what are believed to be accurate and reliable sources and is based on the best opinions and authoritative facts available at the time of issue.