

MATERIAL SAFETY DATA SHEET

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CHEMTREC #: 800/424-9300

DATA SUPPLIED BY: PRIORITY PACKAGING
 3600 LANCASTER PIKE
 WILMINGTON, DE 19805

HMIS RATING:
 H - 1; F - 3; R - 0; PPE - N/A
 NFPA RATING:
 Level 3 Aerosol

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **TFL 50® "Un-Lube" Cleaner/Degreaser** FORMULA NUMBER: MFG. #L-11932
 PRODUCT NUMBER: **#60142 - 5 OUNCE / #60140 - 10.5 OUNCE** PRODUCT CLASS: CLEANER/SOLVENT DEGREASER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% WT.	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE	
			TLV	PEL	MM	@ F
PETROLEUM DISTILLATE	64742-48-9	<100	Not est.	500 ppm	30	77
CARBON DIOXIDE	124-38-9	<05	5000 ppm	5,000 ppm	>760	60
* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.						

SECTION III - PHYSICAL DATA

BOILING RANGE: 235EF FREEZING POINT: <-76EF
 VAPOR DENSITY: Heavier Than Air VAPOR PRESSURE: 31 mm Hg @ 77EF
 EVAPORATION RATE: Slower than ether. SPECIFIC GRAVITY: 0.7227 (60/60EF)
 SOLUBILITY IN WATER: Nil APPEARANCE: Clear, water-white liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

AEROSOL FLAMMABILITY CLASSIFICATION ACCORDING TO ASTM D-3065-77 AND FHSA 1500.45 OSHA:
 Flammable Aerosol - DOT Consumer Commodities ORM-D.

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to semi-decomposition products may cause a health hazard. Symptoms may not be readily apparent, obtain medical attention.

SPECIAL FIREFIGHTING PROCEDURES: Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred. Wear goggles and self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

ANIMAL DATA: Petroleum distillate:
 Inhalation 90 day subchronic: 2,240 ppm in rats (per component supplier for similar solvent).
 Skin Absorption LD50: >3 mL/kg in rabbits (per component supplier)
 Oral LD50: >10 mL/kg in rats (per component supplier)

GENERAL TOXICITY:
 Irritation has been reported in humans using petroleum distillate solvent. The threshold for this irritation is in the range of 120 to 130 ppm. Irritation has also been noted in workers exposed to more than 150 ppm of petroleum distillate solvent.

MUTAGENIC POTENTIAL:
 In a dominant-lethal study in rats exposed to 300 or 900 ppm of similar petroleum distillate solvents, no mutagenic response was noted (per component supplier).

DEVELOPMENTAL TOXICITY:
 Similar petroleum distillate solvents were not fetotoxic or teratogenic in pregnant rats exposed to 300 or 900 ppm on days 6 through 15 of gestation (per component supplier).

REPRODUCTIVE TOXICITY:
 No effect on reproduction was noted in male rats exposed to 300 or 900 ppm of similar petroleum distillate solvents for five days and then mated with unexposed females (per component supplier).

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

APPLICABLE EXPOSURE LIMITS: Petroleum Distillate -
 AEL (DuPont) 100 ppm - 8 & 12 Hr. TWA
 TLV (ACGIH) None established.
 PEL (OSHA) 400 ppm

SECTION V - HEALTH HAZARD DATA (CONT'D)

PRIMARY ROUTES OF ENTRY: Inhalation X Ingestion X Dermal X

RISKS & SYMPTOMS OF OVEREXPOSURE:

INHALATION - Respiratory irritation, headache, nausea, drowsiness, impaired co-ordination.
INGESTION - Not a likely route of exposure. If swallowed, do not induce vomiting. Seek medical advise and/or attention.
SKIN CONTACT - Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.
EYE CONTACT - Liquid or spray can cause moderate to severe irritation.

HEALTH HAZARDS (ACUTE AND CHRONIC):

ACUTE - Eye irritant. Possible skin irritant.
CHRONIC - None known.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE: None known.

SECTION VI - FIRST AID

INHALATION - Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped, get immediate medical attention.
INGESTION - DO NOT induce vomiting. Call poison control center, hospital, emergency room or physician immediately.
SKIN CONTACT - Wash with soap and water. Get medical attention if irritation persists.
EYE CONTACT - Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

SECTION VII - REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Application to hot surfaces. Storage above 120EF. Exposure to open flame.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

HAZARDOUS POLYMERIZATIONS: Will not occur.

SECTION VIII - PRECAUTIONS FOR DISPOSAL, SAFE HANDLING, AND USE

AQUATIC TOXICITY: 96 hour LC50, fathead minnows: 0.490 mg/L
48 hour EC50, daphnia magna: 0.340 mg/L

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with applicable local, state, and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store and use in cool, dry, well-ventilated areas. Do not store above 120F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail, or any other sharp object into open on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

OTHER PRECAUTIONS: Small pressurized container of flammable products may be stored in areas suitable for ordinary combustibles wit respect to construction, drainage, control of ignition sources, and ventilation except that they should not be stored in basements.

SECTION IX - CONTROL MEASURES

RESPIRATORY PROTECTION: None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentration above PEL/TLV limits.

VENTILATION: Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit and PEL below stated limit.

PROTECTIVE GLOVES: None under normal use. Solvent resistant required for prolonged or repeated use.

EYE PROTECTION: None under normal use; however, use of safety glasses with splash guards, chemical goggles an/or full face shields is recommended.

OTHER PROTECTIVE EQUIPMENT: None under normal use; however, use of solvent resistant aprons or other clothing is recommended.

WORK/HYGIENIC PRACTICES: Eye washes and safety showers in the workplace are recommended.

SECTION X - DISCLAIMER

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