



Tef-Lube™

## UNIVERSAL SYNTHETIC GREASE with PTFE

### DESCRIPTION

TEF-LUBE™ penetrates deeply on application, then quickly sets up to a high performance, heavy duty, semi-transparent, PTFE impregnated synthetic grease with unique cohesive and adhesive action that keeps surfaces coated with PTFE film even under high pressure, extreme temperatures and high speeds. Extremely resistant in the face of harsh environments such as water and detergent wash-out, oxidation, acid, dirt and salt spray. Protects against friction, wear and corrosion.

### APPLICATION

TEF-LUBE™ is excellent for both indoor and outdoor applications where wide fluctuations in temperatures can cause lubricant failure. TEF-LUBE assures the ultimate lubrication to hinges, chains, cables, drag lines and other machinery parts exposed to dust and moisture, while offering maximum protection during extreme temperatures, overloads, shockloads, high speed, stress and strain.

Typical applications include hospitals, gym equipment, construction machinery, concrete trucks, ready mix concrete plants, machine shops, lift trucks, mines, ships, asphalt plants, oil fields, paper plants, combines, hoist trucks, elevators, pulp plants, grain elevators, industrial and chemical processing facilities as well as marine, automotive and aircraft maintenance.

Effective on conveyors, cams, slides, valves, linkages, open gears, worms, pumps, chains, rollers, pulleys, fittings, o-rings, couplings, wire rope, holsts, cables, manifold heat valves, slide and high speed bearings, winches, fork lifts and bushings. Excellent for use in shipping, packaging moulding and drying operations.

### SPECIAL FEATURES

**Cohesive and Adhesive Properties** - high adhesion to metal provides uniform coating under all speed and load conditions. The high cohesive strength prevents sling out and loss at high speeds and produces a unique transfer property that makes TEF-LUBE™ string out and continuously recoat gears and chains as the mating surfaces touch and part during operation.

**Anti-Wear Properties** - extreme pressure additives prevent wear under pressures up to 7,000 kg/cm (100,000 psi) and the cohesive strength prevents squeeze out and loss of lubricant at those high pressures.

**Wide Operating Temperature Range** - TEF-LUBE™ is a very heavy lubricant but remains effective from -18°C/-65°F to 260°C/500°F.

**Resists Damage from Dirt** - dirt and grit particles are encapsulated in the TEF-LUBE™ film thus preventing them from wearing directly on the metal parts. There is a tendency to work these particles out of the operating gear teeth while keeping them encapsulated in a lubricant film that reduces destructive wear characteristics.

**Simple Application Procedure** - as an aerosol TEF-LUBE™ allows accurate efficient application to surfaces, thereby reducing waste and mess.

**Provides Economy** - through long use cycles due to the reduction in sling-out and squeeze out loss during operation of equipment, lubricant life can be doubled in most cases.

### USE DIRECTIONS

Spray liberally on surfaces to be lubricated. Liquid will penetrate deeply then set in minutes to a heavy duty grease. Use extension tube for pinpoint application or to reach inaccessible surfaces. Repeat as required by operating conditions. For maximum effectiveness all old standard type greases should be removed before coating with TEF-LUBE™.



**PHYSICAL PROPERTIES** AEROSOL - TEF-LUBE™ consists of non-soap asphaltic oils, corrosion inhibitors along with a high percentage of micronized PTFE.

<b>Type</b>	Heavy Duty PTFE Lubricant
<b>Appearance</b>	Semi-Transparent Liquid
<b>Odour</b>	Slight Solvent
<b>Viscosity</b>	(as sprayed) Slightly Viscous Liquid
<b>Flammability</b>	Flammable
<b>Flash Point</b>	-18°C/-65°F to 260°C/500°F
<b>Specific Gravity(liquid)</b>	0.72-0.76
<b>Toxicity (concentrate)</b>	Low; Eye/Skin Irritant

Harmful if swallowed , do not ingest.

FOR USE IN INDUSTRIAL, INSTITUTIONAL, MARINE and COMMERCIAL ENVIRONMENTS

**PACKAGING** Aerosol case = 12 x 305g cans

DMY200114

MAXIM TECHNOLOGIES INC.  
1607 Derwent Way, DELTA, B.C. V3M 6K8  
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**PRODUCT: TEF-LUBE**

**Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER ..... MAXIM TECHNOLOGIES INC.  
1607 Derwent Way, DELTA  
B.C.  
CANADA  
V3M 6K8  
CANUTEC EMERGENCY #:1-613-996-6666(24HR)

PRODUCT NAME..... TEF-LUBE  
CHEMICAL FAMILY..... HYDROCARBONS.  
MOLECULAR WEIGHT..... NOT APPLICABLE.  
CHEMICAL FORMULA..... MIXTURE.  
TRADE NAMES & SYNONYMS..... TEF-LUBE  
PRODUCT USES..... LUBRICANT.

**Section 02: COMPOSITION/INFORMATION INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route,Species
HEPTANE	10-30	400 ppm	142-82-5	>15000 mg/kg ORAL-RAT	NOT AVAILABLE
LIGHT NAPHTHA - HYDROTREATED	10-30	100 ppm	64742-49-0	24,000 mg/kg ORAL-RAT	14,000-16000 ppm/4h INHAL-RAT
ISOBUTANE	10-30	1000 ppm	75-28-5	NOT APPLICABLE	142,500 ppm (4h) INHAL - RAT
PROPANE	7-13	1000 ppm	74-98-6	>5000 mg/kg DERMAL-RABBITS	NOT AVAILABLE

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
INGESTION..... MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.  
INHALATION..... INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.

EYE CONTACT..... MAY CAUSE IRRITATION.  
SKIN ABSORPTION..... NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.  
SKIN CONTACT..... MAY CAUSE IRRITATION.  
EFFECTS OF ACUTE EXPOSURE..... DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.  
EFFECTS OF CHRONIC EXPOSURE..... SOLVENTS MAY CAUSE DEFATTING DERMATITIS

**Section 04: FIRST AID MEASURES**

EMERGENCY FIRST AID PROCEDURE ..... IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

**Section 05: FIRE FIGHTING MEASURES**

AUTO IGNITION TEMPERATURE (°C)..... 204-399.  
SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARTATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.

FLAMMABILITY..... EXTREMELY FLAMMABLE.  
IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.  
EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
UPPER FLAMMABLE LIMIT..... 9.5.  
(% BY VOLUME)  
LOWER FLAMMABLE LIMIT..... 1.  
(% BY VOLUME)

EXPLOSION DATA  
SENSITIVITY TO STATIC DISCHARGE..... NOT APPLICABLE.  
SENSITIVITY TO IMPACT..... NOT APPLICABLE.

HAZARDOUS COMBUSTION PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.

AEROSOL FLAME PROJECTION  
CLASSIFIED AS:..... <100cm.  
FLASHBACK..... YES.  
FLASH POINT(°C),TAG CLOSED-CUP ..... >-18.  
(CONCENTRATE)

**PRODUCT: TEF-LUBE****Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL..... REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

**Section 07: HANDLING AND STORAGE**

STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.  
 ENGINEERING CONTROLS..... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).  
 HANDLING PROCEDURES AND EQUIPMENT..... STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.  
 SYNERGISTIC MATERIALS..... NONE KNOWN.

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE..... WEAR CHEMICAL RESISTANT GLOVES.  
 RESPIRATORY/TYPE..... IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.  
 EYE/TYPE..... SAFETY GLASSES.  
 FOOTWEAR/TYPE..... NOT NORMALLY REQUIRED.  
 OTHER/TYPE..... NOT REQUIRED.

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... AEROSOL.  
 APPEARANCE..... HAZY AMBER LIQUID.  
 ODOR..... HYDROCARBON.  
 ODOR THRESHOLD..... NOT AVAILABLE.  
 VAPOUR PRESSURE(PSIG)-AEROSOL..... 45-55.  
 @ 20 C  
 BOILING POINT (°C)(CONC)..... 69-83.  
 EVAPORATION RATE..... GREATER THAN 1.  
 n-BUTYL ACETATE = 1  
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.  
 (BY WEIGHT)  
 SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.  
 pH..... NOT APPLICABLE.  
 SPECIFIC GRAVITY (LIQUID)..... 0.72-0.76.  
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.  
 FREEZING POINT: (°C)..... NOT AVAILABLE.  
 AEROSOL PERCENT VOLATILE..... 63-65.  
 (BY WEIGHT).  
 AEROSOL PERCENT VOC (w/w)..... 63-65.

**Section 10: STABILITY AND REACTIVITY**

HAZARDOUS PRODUCTS OF DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.  
 CHEMICAL STABILITY:  
 YES..... UNDER NORMAL CONDITIONS.  
 NO, WHICH CONDITIONS?..... NOT APPLICABLE.  
 COMPATIBILITY WITH OTHER SUBSTANCES:  
 NO, WHICH ONES?..... STRONG OXIDIZING AGENTS.  
 REACTIVITY CONDITIONS?..... NOT APPLICABLE.  
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

**Section 11: TOXICOLOGICAL INFORMATION**

REPRODUCTIVE EFFECTS..... NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.  
 IRRITANCY OF MATERIAL..... SKIN/EYE IRRITANT.  
 SENSITIZING CAPABILITY OF MATERIAL..... NONE KNOWN.  
 CARCINOGENICITY OF MATERIAL..... THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).  
 TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.  
 MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ENVIRONMENTAL..... NOT AVAILABLE.

**PRODUCT: TEF-LUBE**

**Section 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

**Section 14: TRANSPORTATION INFORMATION**

T.D.G. CLASSIFICATION..... AEROSOLS, UN1950 CLASS 2.1.  
 D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

**Section 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION..... A,B5,D2B.  
 HMIS RATING HEALTH..... 2 MODERATE HAZARD.  
 HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.  
 HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.  
 NFPA CODE 30B..... LEVEL 3.  
 CNFC SECTION 3.3.5..... LEVEL 3.

**Section 16: OTHER INFORMATION**

NOTICE FROM MAXIM TECHNOLOGIES INC..... THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY MAXIM TECHNOLOGIES INC. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. MAXIM TECHNOLOGIES INC. ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

PREPARED BY..... MAXIM TECHNOLOGIES INC.  
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