



MSDS

(Material Safety Data Sheet)

SECTION #1 PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: **TOTAL GREASE MULTIS COMPLEX RT1 & RT2**

CHEMICAL NAME AND SYNONYMS: Grease; Lithium complex

MANUFACTURER/SUPPLIER'S NAME: TOTAL CANADA INC.
220, LAFLEUR
LASALLE, QUEBEC
H8R 4C9
Tel.: (514) 595-7579 or 1-800-463-3955

24 HOURS EMERGENCY: Call CHEMTREC 1-800-424-9300 or 703-527-3887

PRODUCT USE: Lubricating grease.

WHMIS CLASS AND DESCRIPTION -



This product is not regulated by the WHMIS.

Other Hazardous System Classification: According to the NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) and Hazardous Materials Identification System (HMIS, USA):

NFPA		HMIS	
0	HEALTH	0	NO SIGNIFICANT RISK
1	FLAMMABILITY	1	WEAK RISK
0	RÉACTIVITY	0	NO SIGNIFICANT RISK
	INDIVIDUAL PROTECTION	B	Eye protection and gloves are recommended

SECTION #2 COMPOSITION/INFORMATION ON INGREDIENTS

NOM	%	No CAS
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This product is made from refined mineral base oils and synthetic oils and does not contain any hazardous ingredients as defined by the Canadian Hazardous Products Act (BILL C70) or by OSHA 29 CFR 1910.1200.

ADDITIONAL REGULATORY INFORMATION

-- Canadian DSL status: All ingredients are listed.

* No components of this product have been found carcinogenic or potential carcinogen. Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S. National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

SECTION #3 PHYSICAL DATA – TYPICAL VALUES

PHYSICAL STATE AT 25°C	Semi-solid,
APPEARANCE ET ODOR:	smooth, red, very sticky with a neutral odor
MINIMUM DROP POINT (ASTM D2265):	RT 1 : 500°C RT 2 : 550°C
POUR POINT (ASTM D97):	-20 °C
DENSITY (g/cm ³ at 15°C):	1.05
VAPOR PRESSURE (mm Hg at 20°C):	Negligible
pH:	No Object
EVAPORATION RATE:	Negligible
SOLUBILITY:	Insoluble and immiscible in water
PENETRATION INDEX, WORKED (ASTM D217):	RT 1 : 310 -340 x 0.1 mm RT 2 : 265 - 295 x 0.1 mm
BASE OIL VISCOSITY (cSt @ 40°C):	520
BASE OIL VISCOSITY (cSt @ 100°C):	36

SECTION #4 STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid excessive heat, open flames and formation of oil mist.
PRODUCTS TO AVOID:	Oxidizing agents, strong acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
POLYMERIZATION:	Will not occur

SECTION #5 FIRE FIGHTING MEASURES

FLASH POINT (CLOSED CUP):	> 250°C
FLAMMABILITY LIMITS IN AIR:	LEL: N/A
(% PER VOLUME)	UEL: N/A

AUTOIGNITION TEMPERATURE (ASTM E 659): > 500°C (Estimated)

EXTINGUISHING MEDIA: Foam, Dry chemical and CO₂

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion products, CO and CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without adequate protective clothing and an approved positive self-contained breathing apparatus. Use water to cool fire exposed containers.

SECTION #6 TOXICOLOGICAL INFORMATION

SPECIES	LD ₅₀ ORAL	LD ₅₀ DERMAL	LC ₅₀ INHALATION	HRS
Rat	> 5000 mg/Kg	> 2000 mg/Kg	N/A	---

This product is not considered a toxicological hazard under normal conditions of storage and handling.

INHALATION: Not expected to be harmful in conditions of normal use as the vapor pressure and volatile content is negligible. Heating and high temperature can cause the emanation of vapors. Prolonged and repeated exposure to high vapor concentration of this product could cause irritation, headache, dizziness and nausea.

Exposure limit to the mist = 10 mg/m³ (TLV/TWA, ACGIH), 15 minutes.
 Exposure limit to the mist = 5 mg/m³ (TLV/TWA, ACGIH), 8 hours.

CONTACT WITH EYES: This product should not cause eye irritation in conditions of normal use. Repeated and prolonged contact may cause eye irritation.

SKIN CONTACT: This product should not cause skin irritation in conditions of normal use. Prolonged and repeated contact with this product can cause a slight skin drying, which may result in skin irritation and dermatitis.

INGESTION: This product is not considered toxic by ingestion. However absorption of large amounts may cause intestinal distress, diarrhea and nausea.

No components of this product have been found carcinogenic or potential carcinogen.
 Does not contain ingredients that are listed as carcinogenic or potential carcinogen by OSHA, IARC or the U.S.National Toxicology Program (NTP). This product or its components have no teratogenic or mutagenic effects known.

SECTION #7 ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Eliminate all ignition sources. Stop leak only if safe to do so. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal.

SECTION #8 HANDLING AND STORAGE

STORAGE AND HANDLING: Store in cool, dry, ventilated area, away from heat and ignition sources. Use good personal hygiene. Always keep the container close.

SECTION #9 EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Mechanical ventilation is recommended.

RESPIRATORY PROTECTION: If mist present, chemical cartridge respirator is recommended.

GLOVES: Resistant gloves (Viton, Nitrile, Neoprene) are recommended when handling this material.

EYE PROTECTION: Chemical safety goggles are recommended.

OTHER PROTECTION: In confined spaces or where the risk of skin exposure is higher, resistant clothing or apron should be worn.

SECTION #10 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Consult relevant local authorities. Reclaim or dispose of at a licensed waste disposal company. Incinerate with approval of appropriate local authority.

SECTION #11 FIRST AID

INHALATION: Remove person to fresh air. See a physician if irritation or any other symptoms persists.

CONTACT WITH EYES: Flush immediately with water for at least 15 minutes.

CONTACT WITH SKIN: Wash contaminated skin with mild soap and water. See a physician if irritation or any other symptoms persists.

INGESTION: This product has a low toxicity. May cause nausea and have a laxative effect. Do not induce vomiting. Contact an Anti-Poison Center (1-800-463-5060).

SECTION #12 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health, Excessive exposure may result in eye, skin and respiratory irritation. Repeated and excessive exposure may cause skin dryness and cracking. High pressure injection under the skin pose a great threat of injury that requires immediate medical attention.

ECOLOGICAL HAZARDS: This product is not inherently biodegradable. It should be considered as a potential pollutant on aquatic environment. It cannot be released into the environment.

PHYSICOCHEMICAL HAZARDS: No risk under normal conditions of intended use.

SENSITIZATION: To our knowledge, the products does not cause aggravated sensitivity. It contains no allergens.

SECTION #13 ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

ECOTOXICITY: This product is not harmful to land based species; however since no data is available on the topic, it should be considered as possibly harmful to aquatic species.

BIODEGRADABILITY: NOT READILY BIODEGRADABLE.

SECTION #14 TRANSPORTATION INFORMATION

TRANSPORTATION (TDG)



not regulated, not considered a dangerous good.

SHIPPING NAME: None
UN NUMBER: None
CLASS DESCRIPTION: None

Other agencies:

USDOT : Not regulated by that agency as an hazardous material.
IMO/IMDG : Not regulated by that agency as an hazardous material.
IATA : Not regulated by that agency as an hazardous material.
ADR : Not regulated by that agency as an hazardous material.
RID : Not regulated by that agency as an hazardous material.

SECTION #15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products. Regulations (CPR) and the MSDS contains all the information required by the CPR.

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

DSL/NDSL Status: This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S. EPA TSCA Inventory.

Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

SECTION #16 ADDITIONAL INFORMATION

Prepared by: André St-Jean, Chemist

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