



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME

Lancer Group International
311 Saulteaux Crescent
Winnipeg, Manitoba,
Canada R3J 3C7

EMERGENCY TELEPHONE:

(204) 889-7422

TRADE NAME: VISCOSITY REDUCER

CODES: 502, 902

CHEMICAL FAMILY: Ester

PRODUCT USE: Viscosity Reducer

CAS #: 68515-48-0 and 28553-12-0

WHMIS Classification: Not controlled

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENTS:	%	TLV (ppm)	CAS

SECTION III: PHYSICAL DATA

Appearance and Odor: Clear oily liquid, mild odour

Boiling Range °C: 252°C

Melting/Freezing Point °C (Water = 0°C): -48°C Approximately

Vapor Pressure (mm Hg): < 0.001 Kpa @ 38°C

Vapor Density (Air = 1): >10

Specific Gravity (Water = 1) @ 20°C: 0.97

Solubility in water: Insoluble

Percent Volatile by volume: Not applicable

pH: Neutral

Evaporation Rate: (Butyl Acetate=1): <0.05

Co-efficient of water / oil distribution: <0.01%

Odour Threshold (ppm): Not applicable

SECTION IV: FIRE AND EXPLOSION DATA

FLAMMABILITY PROPERTIES:

- Flammability: Flammable
- Flammability Conditions:
Keep away from intense heat, open flame or in the presence of an ignition source
- Flash Point (Closed Cup) °C: 213 °C
- Auto ignition Temperature: >260 °C
- Hazardous Combustion Products: Oxides of Carbon (CO, CO₂)
- Explosion Limits: NA
- Explosion Data: NA

EXTINGUISHING MEDIA: Carbon Dioxide, Dry chemical, Foam water spray

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear the usual protective gear. Use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxides of Carbon.

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Irritant

CHRONIC OVEREXPOSURE: Not available

TOXICITY DATA: None Known

SENSITIZATION TO MATERIALS: None Known

SYNERGISTIC PRODUCTS: Not available

EMERGENCY AND FIRST AID MEASURE:

- Eye Contact: Immediately flush eyes with running water for a minimum of 20 minutes holding eyelids open during flushing. Obtain medical attention immediately.
- Skin Contact: Wash with water and mild soap for at least 15 minutes
- Inhalation: Remove to fresh air. Administer oxygen to aid breathing. Seek medical attention.
- Ingestion: Give large quantities of water to drink. Seek medical attention.
- Additional Information: Promptly remove and wash contaminated clothing prior to reuse.

SECTION VI: REACTIVITY DATA

CHEMICAL STABILITY: Product is stable in non-emergency conditions.

INCOMPATIBILITY: Strong Oxidizers

CONDITIONS OF REACTIVITY: Excessive heat, open flame or ignition source and contact with incompatible substances.

HAZARDOUS DECOMPOSITION: Oxides of Carbon (CO, CO₂)

SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Absorb residual material with sand or other absorbent material. Place in a closed container. Recover using a pump. Ventilate area. Contain spilled material. Wash floor area with hot water solution of oaklite.

WASTE DISPOSAL METHOD: In accordance with Municipal, Provincial and Federal Regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

VENTILATION: Local exhaust at points of emission. Mechanical ventilation is satisfactory.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Eye Protection: Wear splash-proof chemical goggles
- Skin Protection: Gloves: Wear impervious gloves
- Footwear: Safety boots as per local regulators
- Clothing: Wear a rubber apron
- Respiratory Protection: Use NIOSH approved respirator
- Other: Eye wash facility should be in close proximity. Wash hands prior to smoking and consuming food.

SECTION IX: HANDLING, STORAGE AND SHIPPING INFORMATION

HANDLING PROCEDURES AND EQUIPMENT:

Maintain a good personal hygiene. Avoid all skin contact. Handle and open container with care. This product must be manipulated by qualified personnel. Keep away from heat, sparks, and open flame. Avoid breathing vapours. Use adequate ventilation. Wash thoroughly after using, particularly before eating or smoking.

STORAGE NEEDS: Store away from oxidizing materials and all sources of ignition. Store in a cool and well ventilated area. Store in a dry place. Keep in a tightly sealed container.

SHIPPING:

- Canadian TDG Shipping Description: Not regulated.
- US DOT Classification: Not regulated.

DISCLAIMER: All information presented herein is given in good faith and is based on sources and tests are considered to be reliable but cannot be guaranteed. It is the user's full responsibility to accept risk for the safety, toxicity, handling, storage, and use of the product as well as to determine the suitability of this product for a specific purpose. We can make no warranty as to the results to be obtained in using the product. Therefore the user must assume all risk.

MSDS PREPARED BY: DISCOVERY/LANCER GROUP

PHONE NUMBER: (204) 885-7792

REVISED DATE: January 8, 2008