

MATERIAL HEALTH & SAFETY DATA SHEET

(Key: > = Greater than; < = Less than)

SECTION 1 - MATERIAL IDENTIFICATION & USE

Material Name: **DRY TEFLON LUBRICANT™ - Code 391**

Supplier: *Captain* PHAB Ltd.

Address: 613 Neal Drive
Peterborough, Ontario.
K9J 6X7

Emergency Telephone #: 705 748-0436

Chemical Name: Not Applicable Molecular Weight: Not Applicable
Chemical Family: Hydrocarbon, Aromatic, Ketone Mixture Trade Name/Synonyms: Not Applicable
Chemical Formula: Mixture Material Use: Fast/Dry Lubricant with Teflon™

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

<u>Hazardous Ingredients</u>	<u>Approximate Concentration %</u>	<u>C.A.S.N.A. or U.N. Numbers</u>	<u>"Exposure Limits"</u>	<u>LD50 / LC50 Specify Species & Route</u>
Heptane	30-40	142-82-5	Not determined	15 g/kg Oral, rat
Acetone	20-30	67-64-1	16000-42000 Inhalation, rat	5800/10700 mg/kg Oral, rat
Isopropyl Alcohol	1-3	67-63-0	16000 ppm/4 hrs Inhalation, rat	5045 mg/kg Oral, rat
Propane/Butane Blend	25-35	68476-86-6	10200 ppm Inhalation, rat	6960 mg/kg Oral, rat

SECTION 3 - PHYSICAL DATA FOR MATERIAL

Physical State: Liquid Specific Gravity: 0.69 - 0.70 @ 20°C. Odour Threshold(ppm): No data Odour & Appearance: Refer Note 11
Vapour Pressure (mm/Hg) Not Avail. Vapour Density (Air=1) >1.0 Evaporation Rate:n-buac .75 Boiling Point (°C): Note 1 Freezing Point(°C):Not Av
Solubility in Water(20°C): Miscible % Volatile (by volume): 96% pH: N/Av. Density (g/ml): Coefficient of water/oil distribution:N/Av

SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability: Yes. Conditions: Flammable aerosol. May form mixture if sprayed into open flames.
Means of Extinction: Use foam, dry chemical, CO2, water fog to extinguish fire.

Special Procedures: Use self-contained breathing apparatus and protective clothing for all fires.
Use water fog to keep cool. Pressurized cans will explode in fire.

Flash point(°C) & Method: Refer Note 2 Upper explosion limit(% by volume) : N/Av Lower explosion limit (% by volume): N/Av
Auto Ignition Temperature(°C): N/Av Flammability Classification: 2.1 Hazardous Combustion Products: Refer Note 3
Chemical Sensitivity to Impact: Refer Note 8 Rate of Burning: Explosion Power: Sensitivity to Static Discharge: Refer Note 9

SECTION 5 - REACTIVITY DATA

Chemical Stability : Yes Conditions:

Incompatibility to other substances: Yes Substances: Avoid excessive amounts of heat & possible ignition sources,
avoid contact with strong oxidizing agents and alkalis.

Reactivity and under what conditions:

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide, Hydrogen Fluoride and Hydrogen Chloride.

SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry:: Skin Contact: .Yes..... Skin Absorption:..Yes..... Eye Contact:..Yes
Inhalation Acute:...Yes... Inhalation Chronic:..... Ingestion: Yes

Effects of Acute Exposure to Product: Refer to Note 4
Effects of Chronic Exposure to Product: Not known.

LD50 of Product (Specify Species & Route) : N/Av Sensitization to Product: May be to skin & eyes
LC50 of Product (Specify Species):N/Av Exposure limits of Product: Refer to Note 5
Irritancy of Product: May be to skin & eyes Synergistic materials: None known.

Carcinogenicity:..... Reproductive effects: Teratogenicity:..... Mutagenicity:..
Refer to Note 6

SECTION 7 - PREVENTIVE MEASURES

Personal Protective Equipment: Engineering or administrative controls should be implemented.

Gloves: Chem. resistant Respiratory: Refer to Note 7 Eye: Goggles Footwear: Boots
Clothing: Apron.....Other: Safety shower & eye bath.

Engineering Controls: Local exhaust desirable. Electrical/mechanical equipment spark proof.
Leak & Spill Procedure: Absorb spills with clay or diatomaceous earth. Provide ventilation.
Waste Disposal: In accordance with Provincial & Federal regulations. Do not dispose in sewers.
Handling Procedures & Equipment: Do not puncture or incinerate containers. Avoid contamination of food.
Storage Requirements: In cool, ventilated area. Do not expose to temps >49°C.
Special Shipping Information: Aerosols. Limited Quantity. 2.1

SECTION 8 - FIRST AID MEASURES

Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder before use.
Eyes: Flush with water, lifting upper and lower lids occasionally, then get medical attention.
Inhalation: If breathing is affected, remove individual to fresh air. If breathing is difficult give oxygen. If breathing stops give artificial respiration.
Keep person warm, get medical attention. DO NOT GIVE STIMULANTS>
Ingestion: Induce vomiting by either giving Ipecac Syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person.
General advice: Epinephrine or ephedrine may adversely affect the heart with fatal results.

SECTION 9 - PREPARATION DATE OF M.S.D.S.

Additional information/Comments:

Sources Used:

Prepared by: Abe Kelly. Phone #: 705 748-0436 Fax #: 705 876-6467 Date: January 1, 2006 Revision Date: December 1, 2006

SECTION 10 - MISCELLANEOUS INFORMATION

- Note 1: Boiling Point: Initial 55-56°C. @ 760 mmHg.
- Note 2: Flash point: - Flame extension 25-45 cm
- Note 3: Hazardous Combustion Products - Oxides of Carbon.
- Note 4: Effects of Acute Exposure to Material:
 - Skin Contact: May cause defatting, drying and cracking of the skin. Prolonged and repeated contact may lead to dermatitis.
 - Inhalation: Vapours are irritating to the eyes, nose, throat and respiratory tract. May cause Central Nervous System depression.
 - Eye Contact: May cause irritation, corneal burns, conjunctivitis, and possible corneal damage.
 - Ingestion: May cause irritation and burning of the mouth and throat, abdominal pain and Central Nervous System depression.
- Note 5: Exposure (Limits) - *ACGIH TLV/TWA: 750ppm (Acetone).
- Note 6: Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity:-
 - The ingredients of this product are not listed as carcinogens by NTP (National Toxicology Program).
 - Reproductive Effects - No information available and no adverse reproduction effects are anticipated.
 - Teratogenicity, Mutagenicity: No information and no adverse effects are anticipated.
- Note 7: Respiratory (specify) If the TLV (750ppm) of the product or any component is exceeded, a NOISH/MSHA jointly approved air supplied respirator is advised in the absence of proper environmental control.
- Note 8: Chemical Sensitivity to Impact: Do not impact aerosol cans.
- Note 9: Sensitivity to Static Discharge: Aerosol spray may be sensitive to static discharge.
- Note 10: WHMIS Classification: Class A. Class B.Div.5, Class D. Div.2. Sub.Div.B.
- Note 11: Physical Data for Material. Odour and appearance: Characteristic odour Opaque liquid.

The information provided in this MSDS has been obtained from sources believed to be reliable. The supplier provides no warranties expressed or implied and assumes no responsibility for the accuracy or the completeness of the data contained herein.

*ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
*TLV - THRESHOLD LIMIT VALUE
*TWA - TIME WEIGHTED AVERAGE
*NOISH - NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH
*MSHA - MINING SAFETY AND HEALTH ASSOCIATION
*TEFLON TM (DUPONT) TRADE MARK