

## MATERIAL SAFETY DATA SHEET

### KUUSPORT MANUFACTURING LIMITED

EFFECTIVE DATE: MARCH 17, 2008

#### 1. MATERIAL IDENTIFICATION AND USE

MANUFACTURER'S NAME	KUUSPORT MFG. LTD
MANUFACTURER'S ADDRESS	450 TAPSCOTT ROAD, UNIT 5&6A SCARBOROUGH, ONTARIO M1B 1Y4
MANUFACTURER'S PHONE NO.	(416) 298-7724
SUPPLIER IDENTIFIER	AS MANUFACTURER
SUPPLIER'S ADDRESS	AS MANUFACTURER
SUPPLIER'S PHONE NO.	AS MANUFACTURER
PRODUCT IDENTIFIER	FLUORINATED LIQUID SPRAY)
PRODUCT CODE	57-440-106
PRODUCT USE	LIQUID LUBRICANT ON SKIS

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	PERCENTAGE(%)	CAS NUMBER:
Naphtha(petroleum) Heavy Alkylate	>60	64741-65-7
OTHER	>15	NONE

#### 3. HAZARDS IDENTIFICATION

##### POTENTIAL ACUTE HEALTH EFFECTS:

**EYE CONTACT:** May cause moderate eye irritation. Eye irritation signs and symptoms may include a burning sensation, redness, swelling and/or blurred vision.

**SKIN CONTACT:** May cause moderate skin irritation. Repeated exposure may cause skin dryness or cracking. Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters.

**INHALATION:** Vapours expected to be slightly irritating. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

**INGESTION:** May cause lung damage if swallowed. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breathe and/or fever.

NOTE: Material, even in small quantities may present a slip hazard.

#### 4. FIRST AID MEASURES

EYE CONTACT: Flush eyes with water for at least 15 minutes while holding eyelids open. If irritation or redness persists or signs of toxicity occur, seek medical attention.

SKIN CONTACT: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

INGESTION: DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

NOTES TO PHYSICIAN: Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Could cause central nervous system depression. Consider: gastric lavage with protection airway, administration of activated charcoal.

#### 5. FIRE FIGHTING MEASURES

FLASH POINT: 51°C/124°F (liquid)

FLASH POINT METHOD: Tag Closed Cup (liquid)

AUTOIGNITION TEMPERATURE: 347.8°C/658°F (liquid)

FLAMMABLE LIMITS IN AIR (%): Lower: 1% Upper: 7% (liquid)

EXTINGUISHING MEDIA: Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.

SPECIAL EXPOSURE HAZARDS: Carbon monoxide may be evolved if incomplete combustion occurs. Product will float and can be reignited on surface of water. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations. NEVER use a water jet directly on the fire because it may spread the fire to a larger area. Use fine water spray or fog to control fire spread and cool adjacent structure or containers.

HAZARDOUS DECOMPOSITION/COMBUSTION MATERIALS (under fire conditions): Carbon oxides and traces of incompletely burned carbon compounds, Silicon dioxide.

SPECIAL PROTECTIVE EQUIPMENT: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONARY MEASURES: Wear appropriate protective equipment.

ENVIRONMENTAL PRECAUTIONARY MEASURES: Prevent entry into sewers or streams. Consult local authorities.

PROCEDURE FOR CLEAN UP: (Industrial Use) Isolate hazard area and restrict access. Stop leak only if safe to do so. Remove ignition sources and work with non-sparking tools. Small spills: soak up with absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Pump into suitable container. Clean up residual with absorbent material and flush with water. Take precautionary measures against static discharge. Clean area as appropriate, some material even in small quantities may present a slip hazard. Observe all personal protection equipment recommendations described in Sections 5 and 8. Ensure electrical continuity by bonding/grounding all equipment. Monitor area with combustible gas indicator.

## 7. HANDLING AND STORAGE

### STORAGE:

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(INDUSTRIAL USE)

### RESPIRATORY PROTECTION:

No special requirements under ordinary conditions of use and with adequate ventilation.

### GLOVES:

PVC gloves are recommended.

### SKIN PROTECTION:

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

### EYES:

Normal industrial eye protection practices should be employed.

### OTHER PERSONAL PROTECTIVE DATA:

Ensure that eyewash stations and safety showers are proximal to the workstation location.

NOTE: Material, even in small quantities may present a slip hazard.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	LIQUID
COLOUR:	clear; light colour
ODOUR:	hydrocarbon, mild
Ph:	n/a
SPECIFIC GRAVITY:	.758@15.6C/60F
BOILING POINT:	175-205C/347-401F
FREEZING/MELTING POINT:	n/a
VAPOUR PRESSURE:	7.1kPa@20c/68F
VAPOUR DENSITY :	5.3
% VOLATILE BY VOLUME :	100
EVAPORATION RATE:	0.1
SOLUBILITY:	WATER: 0.05g/l Negligible
VOCS:	n/a
VISCOSITY:	n/a
MOLECULAR WEIGHT:	n/a
OTHER:	n/a

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Avoid excessive heat, open flames and all ignition sources.
MATERIALS TO AVOID:	Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids & gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## 11. TOXICOLOGICAL INFORMATION

### PRINCIPLE ROUTES OF EXPOSURE:

INGESTION: May cause lung damage if swallowed. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and or fever.

SKIN CONTACT: May cause moderate skin irritation. Repeated exposure may cause skin dryness or cracking. Skin irritation signs and symptoms may include a burning sensation, redness, swelling and blisters.

INHALATION: Vapours expected to be slightly irritating. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing and/or difficulty breathing.

EYE CONTACT: May cause moderate eye irritation. Eye irritation signs and symptoms may include a burning sensation, redness, swelling and/or blurred vision.

### Acute Test of Product:

Acute Oral LD50: Oral LD 50 (Rat) > 8000mg/kg

Acute Dermal LD50: Dermal LD 50 >4000mg/kg

Acute Inhalation LC50: N/A

### CARCINOGENICITY:

Ingredients	IARC – Carcinogens	ACGIH – Carcinogens
Naphtha (petroleum)	not listed	not listed
Heavy Alkylated		

Reproductive Toxicity/Teratogenicity/Embryotoxicity/Mutagenicity: Not expected to be mutagenic. Not expected to be a developmental toxicant. Not expected to impair fertility.

## 12. ECOLOGICAL INFORMATION

Ingredients	Exotoxicity–Fish Species Data	Acute Crustaceans Toxicity	Ecotoxicity-Freshwater Algae Data
Naphtha (petroleum) Heavy Alkylate	not available	not available	EC50 (Selenastrum capricornutum) 30000 mg/L

Other Information: Adsorbs to soil and has low mobility. Floats on water. Oxidizes rapidly by photo-chemical reactions in air. Has the potential to bioaccumulate. Not biodegradable.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL OF WASTE METHOD:** Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

**CONTAMINATED PACKAGING:** Empty containers should be recycled or disposed of through an approved waste management facility.

## 14. TRANSPORT INFORMATION

TDG (CANADA):  
 TDG PROPER SHIPPING NAME: PETROLEUM DISTILLATES N.O.S.  
 HAZARD CLASS: 3  
 UN NUMBER: UN1268 (LIQUID)  
 PACKING GROUP: 111

**Note:** Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packagings or containers of 450L or less (waste excluded).  
 Marine Pollutant: No

## 15. REGULATORY INFORMATION

**U.S. TSCA Inventory Status:** All components of this product are either on the Toxic Control Act (TSCA) Inventory List or exempt.

**CANADIAN DSL INVENTORY STATUS:** All components of this product are either on the Domestic Substance List (DSL), the Non-**Domestic** Substance List (NDSL) or exempt.

### U.S. Regulatory Rules

Ingredients	CERCLA/SARA-Section 302:	SARA(311, 312) Hazard class:	CERCLA/SARA Section-313:
Naphtha	Not listed	Not listed	Not listed

California Proposition 65: Not listed  
MA Right to Know List: Not listed  
New Jersey Right to Know List: Not listed  
Pennsylvania Right to Know List: Not listed

WHMIS Hazardous Class:  
83 COMBUSTIBLE LIQUIDS

FLAMMABLE



<b>PREPARATION DATE OF MATERIAL SAFETY DATA SHEET</b>
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PREPARED BY	KUUSPORT MFG. LTD
TELEPHONE NUMBER OF PREPARER	(416) 298-7724
DATE PREPARED:	MARCH 17, 2008

THE INFORMATION CONTAINED HEREIN IS OFFERED ONLY AS A GUIDE TO THE HANDLING OF THIS SPECIFIC MATERIAL AND HAS BEEN PREPARED IN GOOD FAITH BY TECHNICALLY KNOWLEDGEABLE PERSONNEL. IT IS NOT INTENDED TO BE ALL-INCLUSIVE AND THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER ADDITIONAL CONSIDERATIONS. NO WARRANTY OF ANY KIND IS GIVEN OR IMPLIED AND KUUSPORT MFG. LTD. WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES, INJURIES OR CONSEQUENTIAL DAMAGES WHICH MAY RESULT FROM THE USE OR RELIANCE ON ANY INFORMATION CONTAINED HEREIN.