

MATERIAL SAFETY DATA SHEET

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 PAGE: 1 OF 2

1. PRODUCT NAME & HAZARD SUMMARY

6748 VOL VOLATILE SPOTTER
 PRIMARY USE: SPOT REMOVAL

NFPA HAZARD	RATING	SARA TITLE III, SECTION 313	CANADA (WHMIS)
HEALTH	2 MODERATE	APPLICABLE ()	B: FLAMMABLE, COMBUSTIBLE
FIRE	1 SLIGHT	NOT APPLICABLE (X)	D2: CAUSING OTHER TOXIC EFFECTS
REACTIVITY	0 MINIMAL		

2. HAZARDOUS COMPONENTS

	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)	
Synthetic isoparaffinic hydrocarbons C.A.S. #64741-66-8	40-70	PEL N/Av	TWA 400	STEL >5000 rat. oral	N.AV.
Halogenated hydrocarbon C.A.S. Trade Secret	30-60	200	200	5000	N.AV.
Glycol ether C.A.S. :Trade Secret	2-5	N/Av	20	3000	N.AV.

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: CLEAR, WATER WHITE LIQUID	EVAPORATION RATE (n-BuOAC = 1): 3.0 (ESTIMATE)
ODOR: ETHER-LIKE	VAPOR DENSITY (AIR =1): N.AV.
BOILING PT.: 90-350°F (32-176°C)	VAPOR PRESSURE (MM): 140mm (68°F)
FREEZING PT.: <20°C	SOLUBILITY IN WATER: 20%
pH: N.AP.	SPECIFIC GRAVITY (WATER = 1): 0.898
% VOLATILE: 100%	CO-EFFICIENT OF WATER/OIL DISTRIBUTION: N.AV.
ODOR THRESHOLD (PPM): N.AV.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: >141°F (61°C)
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: Not determined
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Dry chemical, CO₂, water spray or alcohol foam.
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus.
 UNUSUAL FIRE AND EXPLOSION: None
 HAZARDOUS COMBUSTION PRODUCTS: Hydrogen Chloride Gas, Hydrogen Fluoride, Oxides of Carbon.
 CONDITIONS OF FLAMMABILITY: N.AV.
 AUTO IGNITION TEMP. (°C): N.AV.
 EXPLOSION DATA: - SENSITIVITY TO MECHANICAL IMPACT: N.AP.
 SENSITIVITY TO STATIC DISCHARGE: N.AV.

5. REACTIVITY HAZARD DATA

STABILITY (CONDITIONS TO AVOID): Stable
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, caustic material, and acids. Avoid contact with Aluminum.
 HAZARDOUS DECOMPOSITION PRODUCTS: Extreme thermal decomposition may release Hydrogen Chloride Gas, Hydrogen Fluoride Gas.
 HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): Will not occur

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION__X__ SKIN__X__ INGESTION_____

WARNING! MAY CAUSE EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.
SIGNS & SYMPTOMS OF EXPOSURE: (ACUTE & CHRONIC)

EYES: Liquid and vapors may cause irritation.
 SKIN: May cause irritation and defatting of skin, which can lead to irritation, dermatitis.
 INGESTION: of a large dose may cause abdominal pain, nausea and vomiting. May produce central nervous system depression with drowsiness, headache, dizziness, loss of coordination.

6. HEALTH HAZARD DATA (cont'd)

INHALATION: May cause irritation of throat, dizziness, headache, nausea and vomiting. May cause central nervous system depression.

IRRITANCY OF PRODUCT: N.AV.

SENSITIZATION TO PRODUCT: N.AV.

CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY: N.AV.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: N.AV.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Remove contact lenses, if worn. Flush with water for at least 15 min. Call a physician.

SKIN: Remove contaminated clothing, wash affected area with soap and water. If any symptoms of contact appear, get medical help.

INHALATION: Remove to fresh air. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Get medical attention immediately.

INGESTION: Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration into lungs.

7. SPILL AND LEAK PROCEDURES

LARGE SPILLS: Contain and transfer to drums for use or disposal.

SMALL SPILLS: Absorb onto rags. Clean rags in cleaning unit.

WASTE DISPOSAL METHOD: May be considered a hazardous waste, dispose of according to all applicable regulations. Incineration in permitted facilities or disposal in permitted land fill are preferred disposal methods.

HANDLING PROCEDURES & EQUIPMENT: Avoid direct contact, wear respirator if vapors are present.

STORAGE REQUIREMENTS: Keep away from high heat areas.

8. SPECIAL PROTECTION, PREVENTATIVE MEASURES/IN CASE OF LARGE SPILL OR FIRE

ENGINEERING CONTROLS/VENTILATION: Local exhaust system sufficient to maintain exposure below TWA values

RESPIRATOR: THE FOLLOWING RESPIRATORS ARE RECOMMENDED & RANKED IN ORDER FROM MIN. TO MAX. PROTECTION:

CHEMICAL CARTRIDGE RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE WITH A FULL FACE PIECE.

GAS MASK WITH ORGANIC VAPOR CANISTER WITH A FULL FACE PIECE.

TYPE "C" SUPPLIED-AIR RESPIRATOR WITH FULL FACE PIECE.

SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN PRESSURE-DEMAND.

PERSONAL PROTECTIVE EQUIPMENT: Wear goggles when handling product, petroleum solvent resistant gloves.

9. TRANSPORTATION DATA

DOT HAZARD CLASSIFICATION 49 CFR 172.101: Combustible liquid, not regulated.

DOT LABEL: None

U.N./IATA: Not regulated

10. STATE RIGHT TO KNOW INFORMATION

SYNTHETIC ISOPARAFFINIC HYDROCARBONS C.A.S. #64741-66-8, HALOGENATED HYDROCARBON C.A.S. # TRADE SECRET, GLYCOL ETHER, C.A.S. # TRADE SECRET

ABBREVIATIONS:

OSHA = Occupational Safety & Health Administration

TWA = Time Weighted Average for 8 Hours

Mg/M³ = Milligrams per Cubic Meter of Air

NFPA = National Fire Protection Agency

(C) = Ceiling, Limit for Exposure

DOT = Department of Transportation

MG/KG = Milligrams per Kilogram (1,000 grams)

WHMIS = Workplace Hazardous Materials Information System - Canada

ACGIH = American Conference of Government Industrial Hygienists

R.Q. = Amount of spill that must be reported to EPA

SARA Title III, Sec. 313 = Superfund Amendments and Reauthorization Act

C.A.S. = Chemical Abstract Service Number

LD 50 = Lethal Dose for 50% Test Animals

PEL = Permissible Exposure Level

STEL = Short Term Exposure Level (15 min)

ppm = part(s) per million

SKN = Skin Effects

IATA = International Air Transport Association

N.AV. = Not Available

N.AP. = Not Applicable

U.N. = United Nations

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