

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME & HAZARD SUMMARY

**6709 BRITE-LIFE DRYCLEANING DETERGENT** FOR PERCHLOROETHYLENE OR PETROLEUM SOLVENT  
 PRIMARY USE: DETERGENT FOR PERCHLOROETHYLENE OR PETROLEUM SOLVENT

NFPA HAZARD	RATING	SARA TITLE III, SECTION 313	CANADA (WHMIS)
HEALTH	2 MODERATE	APPLICABLE ( )	B: FLAMMABLE, COMBUSTIBLE
FIRE	2 MODERATE	NOT APPLICABLE (X)	
REACTIVITY	0 MINIMAL		

2. HAZARDOUS COMPONENTS

	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
ALIPHATIC HYDROCARBON	≤ 60.0	PEL 500	TWA 100	STEL N.AV.
C.A.S. #64742-88-7				N.AV.

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: AMBER, VISCOUS LIQUID	EVAPORATION RATE (ETHER = 1): LESS THAN WATER
ODOR: PLEASANT, FRUITY	VAPOR DENSITY (AIR =1): N.AV.
BOILING PT.: >360°F (182°C)	VAPOR PRESSURE (MM): N.AV.
FREEZING PT.: 20°F (-6°C)	SOLUBILITY IN WATER: NEGLIGIBLE
pH: 6-8 (H <sub>2</sub> O, ALCOHOL MIX)	SPECIFIC GRAVITY (WATER = 1): 0.94
% VOLATILE: 65%	CO-EFFICIENT OF WATER/OIL DISTRIBUTION: N.AV.
ODOR THRESHOLD (PPM): N.AV.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: ≥144°F (62°C)  
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: For Aliphatic Hydrocarbon LEL: 1.0 (25°C), UEL: 6.0 (25°C)  
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Dry chemical, CO<sub>2</sub>, water spray or foam spray  
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None  
 HAZARDOUS COMBUSTION PRODUCTS: Oxides of Carbon  
 CONDITIONS OF FLAMMABILITY: High heat and sources of ignition  
 AUTO IGNITION TEMP. (°C): N.AV.  
 EXPLOSION DATA: - SENSITIVITY TO MECHANICAL IMPACT: N.AV.  
 SENSITIVITY TO STATIC DISCHARGE: N.AV.

5. REACTIVITY HAZARD DATA

STABILITY (CONDITIONS TO AVOID): Stable  
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents  
 HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release Oxides of Carbon  
 HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): Will not occur

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:            INHALATION\_\_\_            SKIN\_\_X\_\_            INGESTION\_\_X\_\_

WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. VAPORS ARE HARMFUL. MAY BE HARMFUL IF SWALLOWED.

SIGNS & SYMPTOMS OF EXPOSURE: (ACUTE & CHRONIC)

EYES: Liquid and vapors may cause irritation.  
 SKIN: Prolonged contact may cause defatting of skin, which can lead to irritation, dermatitis, folliculitis, oil acne, melanosis, and rarely warts.  
 INGESTION: May cause gastrointestinal disturbances such as nausea, vomiting and diarrhea. Aspiration into lungs from vomiting will cause lung damage, which could be fatal.

## 6. HEALTH HAZARD DATA (cont'd)

INHALATION: Low hazard unless heated or misted. May cause irritation of throat and nose, dizziness and lung edema with chest tightness.

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: Flush with water. Remove contaminated clothing.

INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen, if available. Get medical help.

INGESTION: If conscious, give large amounts of water. Do NOT induce vomiting, get medical help. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

## 7. SPILL AND LEAK PROCEDURES

Remove sources of ignition.

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.

STORAGE REQUIREMENTS: Keep away from heat and sources of ignition.

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

ENGINEERING CONTROLS/VENTILATION: Local exhaust system sufficient to maintain exposure level 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: None, not regulated

DOT LABEL: None

UN, IATA: Not regulated

## 10. STATE RIGHT TO KNOW INFORMATION

ALIPHATIC HYDROCARBON-C.A.S. #64742-88-7, PHOSPHORIC ESTER-C.A.S. #51811-79-1,

OLEYL IMIDAZOLINE BETAINE-C.A.S. #67892-37-9, COCONUT DIETHANOL AMIDE-C.A.S. #8051-30-7,

OLEYL ISOPROPANOL AMIDE-C.A.S. #111-05-7

## ABBREVIATIONS:

OSHA = Occupational Safety & Health Administration

TWA = Time Weighted Average for 8 Hours

Mg/M<sup>3</sup> = 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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