

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME & HAZARD SUMMARY

6744 WETCLEEN DETERGENT FOR FINE WASHABLES
 PRIMARY USE: LAUNDRY DETERGENT FOR FINE WASHABLES

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

2. HAZARDOUS COMPONENTS

	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
HEXYLENE GLYCOL	≤ 3.0	PEL N.A.V.	TWA N.A.V.	STEL 25 (C)
C.A.S. #107-41-5				3,700 ORAL-RAT 750 ORAL-DOG
ALKOXYLATED ALCOHOLS	≤ 5.0			
C.A.S. #78330-21-9				

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: CLEAR LIGHT AMBER LIQUID	EVAPORATION RATE (ETHER = 1): EQUAL TO WATER
ODOR: PERFUMED	VAPOR DENSITY (AIR = 1): N.AP.
BOILING PT.: 212°F (100°C)	VAPOR PRESSURE (MM): N.AP.
FREEZING PT.: 32°F (0°C)	SOLUBILITY IN WATER: COMPLETE
pH: 4.5 - 5.5	SPECIFIC GRAVITY (WATER = 1): 1.00
% VOLATILE: 75-80%	CO-EFFICIENT OF WATER/OIL DISTRIBUTION: N.A.V.
ODOR THRESHOLD (PPM): N.A.V.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: None
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: N.AP.
 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: Oxides of Carbon
 CONDITIONS OF FLAMMABILITY: N.AP.
 AUTO IGNITION TEMP. (°C): N.AP.
 EXPLOSION DATA: - SENSITIVITY TO MECHANICAL IMPACT: N.AP.
 SENSITIVITY TO STATIC DISCHARGE: N.AP.

5. REACTIVITY HAZARD DATA

STABILITY (CONDITIONS TO AVOID): Stable
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers
 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____

WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. 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 the skin which can lead to irritation and dermatitis.
 INGESTION: of a large dose may cause abdominal pain, nausea and vomiting.

6. HEALTH HAZARD DATA (cont'd)

INHALATION: Low hazard unless heated or misted.
 IRRITANCY OF PRODUCT: Minimal
 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. Get medical help if any symptoms occur.
 INHALATION: Remove to fresh air.
 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 and 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 oxidizers.

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

ENGINEERING CONTROLS/VENTILATION: Normal room ventilation

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.

9. TRANSPORTATION DATA

DOT HAZARD CLASSIFICATION 49 CFR172.101: None, not regulated
 DOT LABEL: None
 U.N./IATA: Not regulated

10. STATE RIGHT TO KNOW INFORMATION

WATER-C.A.S. #7732-18-5, OLEYL IMIDAZOLINE BETAINE-C.A.S. #67892-37-9, ALKOXYLATED ALCOHOLS C.A.S. #78330-21-9, HEXYLENE GLYCOL-C.A.S. #107-41-5, SODIUM CITRATE-C.A.S. #6132-04-3

ABBREVIATIONS:

OSHA = Occupational Safety & Health Administration	C.A.S. = Chemical Abstract Service Number
TWA = Time Weighted Average for 8 Hours	LD 50 = Lethal Dose for 50% Test Animals
Mg/M ³ = Milligrams per Cubic Meter of Air	PEL = Permissible Exposure Level
NFPA = National Fire Protection Agency	STEL = Short Term Exposure Level (15 min)
(C) = Ceiling, Limit for Exposure	ppm = part(s) per million
DOT = Department of Transportation	SKN = Skin Effects
MG/KG = Milligrams per Kilogram (1,000 grams)	IATA = International Air Transport Association
WHMIS = Workplace Hazardous Materials Information System - Canada	N.AV. = Not Available
ACGIH = American Conference of Government Industrial Hygienists	N.AP. = Not Applicable
R.Q. = Amount of spill that must be reported to EPA	U.N. = United Nations
SARA Title III, Sec. 313 = Superfund Amendments and Reauthorization Act	

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