

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME & HAZARD SUMMARY

5937 LIQUID STARCH

PRIMARY USE: LAUNDRY STARCH

NFPA HAZARD	RATING	SARA TITLE III, SECTION 313	CANADA (WHMIS)
HEALTH	1 SLIGHT	APPLICABLE ()	NONE
FIRE	0 MINIMAL	NOT APPLICABLE (X)	
REACTIVITY	0 MINIMAL		

2. HAZARDOUS COMPONENTS

	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
NATURAL STARCH		PEL N.AP.	TWA N.AP.	STEL
C.A.S. #9005-25-8				
POLYVINYL ACETATE		N.AV.	N.AV.	
C.A.S. #9003-20-7				

INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: WHITE LIQUID	EVAPORATION RATE (BUTYL ACETATE = 1): N.AP.
ODOR: SWEET	VAPOR DENSITY (AIR = 1): N.AP.
BOILING PT: 100°C	VAPOR PRESSURE (MM): SAME AS WATER
FREEZING PT: APPROX. 0°C	SOLUBILITY IN WATER: MISCIBLE
pH: N.A.	SPECIFIC GRAVITY (WATER = 1): 1.1
% VOLATILE: N.AP.	CO-EFFICIENT OF WATER/OIL DIST: N.AV.
ODOR THRESHOLD (PPM): N.AV.	

4. FIRE & EXPLOSION HAZARDS

FLASH POINT: None
 FLAMMABLE LIMITS IN AIR, % BY VOLUME: LEL: N.AV. UEL upper N.AV.
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Water, Carbon Dioxide or dry chemical fire extinguisher.
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear butyl rubber boots, gloves, bodysuit and breathing apparatus.
 UNUSUAL FIRE & EXPLOSION: None
 HAZARDOUS COMBUSTION PRODUCTS: Black smoke, Oxides of Carbon.
 CONDITIONS OF FLAMMABILITY: None
 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 oxidizing agents, mineral acids and strong caustic
 HAZARDOUS DECOMPOSITION PRODUCTS: Black smoke.
 HAZARDOUS POLYMERIZATION (CONDITIONS TO AVOID): Will not occur.

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION_____ SKIN_X__ INGESTION_____

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

EYES: Contact may cause irritation.
 SKIN: Contact may cause irritation.
 INGESTION: May cause irritation.
 INHALATION: Low hazard. May cause irritation of throat and nose.
 IRRITANCY OF PRODUCT: Slight
 SENSITIZATION TO PRODUCT: None
 CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY: N.AV.

6. HEALTH HAZARD DATA (cont' d)

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: N.AV.

EMERGENCY & FIRST AID PROCEDURES:

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

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

INHALATION: Remove to fresh air.

INGESTION: Seek medical attention. If vomiting occurs, keep head below hips.

7. SPILL & LEAK PROCEDURES

Remove sources of ignition.

LARGE SPILLS: Contain and absorb with dry soil or absorbent.

SMALL SPILLS: Flush with water.

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

HANDLING PROCEDURES & EQUIPMENT: Avoid direct contact.

STORAGE REQUIREMENTS: Keep away from heat.

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

ENGINEERING CONTROLS/VENTILATION: Local exhaust system

RESPIRATOR: NIOSH approved dust mask as necessary

9. TRANSPORTATION DATA

DOT HAZARD CLASSIFICATION 49 CFR172.101: None, not regulated

DOT LABEL: None

U.N./I.A.T.A.: Not regulated

10. STATE OF RIGHT TO KNOW INFORMATION

WATER C.A.S. #7732-18-5, NATURAL STARCH #9005-25-8, POLTVINYL ACETATE #9003-20-7

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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