

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME & HAZARD SUMMARY

5911 TITANIUM PRIMARY USE: LAUNDRY DETERGENT

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

2. HAZARDOUS COMPONENTS	%	OSHA (PPM)	ACGIH (PPM)	LD 50 (MG/KG)
		PEL	TWA STEL	

SODIUM CARBONATE
 C.A.S. #497-19-8 €15
 INGREDIENTS NOT IDENTIFIED ARE NON-HAZARDOUS.

3. PHYSICAL & CHEMICAL DATA

APPEARANCE: WHITE, GRANULAR	EVAPORATION RATE (ETHER = 1): N.AP.
ODOR: MILD	VAPOR DENSITY (AIR = 1): N.AP.
BOILING PT: N.AP.	VAPOR PRESSURE (MM): N.AP.
FREEZING PT: N.AP.	SOLUBILITY IN WATER: COMPLETE
pH: 10.7 (1% IN WATER)	SPECIFIC GRAVITY (WATER = 1): N.AP.
% 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: N.AP.
 FIRE FIGHTING MEDIA (1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5): Dry chemical, CO₂, water or alcohol foam.
 SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus.
 UNUSUAL FIRE & 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 X SKIN X INGESTION
 WARNING! MAY CAUSE EYE, SKIN AND RESPIRATORY IRRITATION. MAY BE HARMFUL IF SWALLOWED.
SIGNS & SYMPTOMS OF EXPOSURE: (ACUTE & CHRONIC)

EYES: May cause irritation.
 SKIN: Prolonged contact may cause defatting of skin which can lead to irritation and dermatitis.
 INGESTION: of a large dose may cause abdominal pain, nausea and vomiting.
 INHALATION: Low hazard.
 IRRITANCY OF PRODUCT: N.AV.
 SENSITIZATION TO PRODUCT: N.AV.
 CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY, MUTAGENICITY: N.AV.
 TOXICOLOGICALLY SYNERGISTIC PRODUCTS: N.AV.

 6. HEALTH HAZARD DATA (cont' d)

EMERGENCY & FIRST AID PROCEDURES:

EYES: Remove contact lenses, if worn. Flush with water for at least 15 minutes. 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: If conscious give large amounts of water, then induce vomiting. Get medical attention.

 7. SPILL & LEAK PROCEDURES

LARGE SPILLS: Sweep up.
 SMALL SPILLS: Sweep up or 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 strong 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./I.A.T.A.: Not regulated

 10. STATE RIGHT TO KNOW INFORMATION

SODIUM CARBONATE-C.A.S. #497-19-8, SILICONE DIOXIDE-C.A.S. #7631-86-9, NON-IONIC SURFACTANT-C.A.S. #NONE, SODIUM PERBORATE-C.A.S. #10486-00-7, SODIUM CHLORIDE-C.A.S. #7647-14-5

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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