

MATERIAL SAFETY DATA SHEET

SECTION I – MATERIAL IDENTIFICATION AND USE

Material Name Automatic Dishwashing Detergent Powder			
Manufacturer's Name Seventh Generation, Inc.		Street Address 60 Lake Street	
City Burlington	State VT	Zip Code 05401-5281	EMERGENCY TELEPHONE NO. 800-456-1191
Chemical Name NAP	Chemical Family NAP	Chemical Formula NAP	
Molecular Weight NAP	Trade Name and Synonym NAP	Material Use Household cleaning	

SECTION II – INGREDIENTS OF MATERIAL WHMIS Class D2B

Ingredient Name	Concentration (%)	CAS Number or U.N. Number	Exposure Limits	Toxicity Data LD ₅₀ (oral, rat)
Sodium Carbonate	10-100	479-19-8	TLV 10 mg/m ³	2,800 mg/kg
Water	1-10	7732-18-5	NAV	NAV
Sodium Sulphate	3-30	7757-82-6	NAV	Oral LD ₅₀ mouse 5,989 mg/kg
Sodium Chloride	3-30	7647-14-5	NAV	3,000 mg/kg
Citric Acid	3-30	77-92-9	NAV	NAV
Sodium Silicate	0.1-10	1344-09-8	NAV	NAV
Polymeric salt	0.1-10	68479-09-4	NAV	>5,000 mg/kg
Ethoxylated/Propoxylated Alcohol	0.5-5	N/A	NAV	NAV
Sodium Perborate Monohydrate	0.5-5	10332-33-9	NAV	(female) 890; (male) 1,300 mg/kg
Enzyme Protease	0.1-1	01/01/9014	TLV 0.00006 mg/m ³	>2,000 mg/kg
Enzyme Amylase	0.1-1	9000-90-2	NAV	>2,000 mg/kg

SECTION III – PHYSICAL DATA FOR MATERIAL

Physical State [X] Solid [] Liquid	Color and Appearance White Granular Powder	Odor Threshold Limit NAV	Specific Gravity NAV
Vapor Pressure (mm) NAP	Vapor Density (Air=1) NAP	Evaporation Rate NAP	Boiling Point NAP
Solubility in Water Complete at 25C	Percent Volatiles < 5	pH 9.5-10.5	Density (g/cc) 1.02 +/- 0.1
Freezing Point NAP			
Coef. Of Oil/Water Distribution: NAV			

SECTION IV – FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammable? If yes, under what conditions? Yes [] No [X]			
Means of Extinction NAP			
Special Procedures NAP			
Flashpoint (°C) and Method NAP		Upper Explosion Limit (% by Volume) NAV	Lower Explosion Limit (% by Volume) NAV
Auto Ignition Temperature (°C) NAV		TDG Flammability Classification NAP	Hazardous Combustion Products NAV
Sensitivity to Impact Sensitivity to Chemical Impact	Rate of Burning NAP	Explosive Power NAP	Sensitivity to Static Discharge NAV

SECTION V – REACTIVITY DATA

Chemically Stable? If no, under what conditions? Yes [X] No []			
Incompatible with other substances? If yes, which ones? Yes [] No [X]			
Reactivity, and under what conditions? Not reactive			
Hazardous Decomposition Products NAP			

Material Name Automatic Dishwashing Detergent Powder			
SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT			
Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation, Acute <input type="checkbox"/> Inhalation, Chronic <input checked="" type="checkbox"/> Ingestion			
Effects of Acute Exposure to Product Irritation to eyes and nose may occur at very high concentrations. If ingested call Physician immediately.			
Effects of Chronic Exposure to Product Prolonged and repeated exposure may cause eye and skin irritation.			
LD ₅₀ of Product NAV	Irritancy of Product May cause irritation to eyes and skin	Exposure Limits of Product NAV	
LC ₅₀ of Product NAV	Sensitization to Product NAV	Synergistic Materials NAV	
Chronic Toxicities <input type="checkbox"/> Carcinogenic <input type="checkbox"/> Reproductive Toxin <input type="checkbox"/> Teratogenic <input type="checkbox"/> Mutagenic			
SECTION VII – PREVENTATIVE MEASURES			
Personal Protective Equipment	Respiratory 3M 8233 Mask or equivalent	Eye Safety Glasses	Footwear Boots, if necessary
Gloves Cloth gloves	Other Eye wash fountains are recommended		
Clothing Coveralls			
Engineering Controls Local exhaust ventilation			
Leak and Spill Procedures Small amounts should be flushed to sanitary sewers, if permitted by Local/Provincial Regulations			
Waste Disposal Landfill- Dispose according to appropriate regulations			
Handling Procedures and Equipment Avoid ingestion & inhalation, wear P.P.E. & avoid generating dust.			
Storage Requirements Store in a cool, dry place away from excessive heat. Store between 10-48C			
Special Shipping Information NAP			
SECTION VIII – FIRST AID MEASURES			
Skin Avoid contact with skin and eyes.			
Eyes Wash eye with water immediately after contact for 15 minutes. Call a physician if irritation persists.			
Inhalation Move person to fresh air, if severe contact a physician.			
Ingestion Call a physician immediately.			
General Advice NAP			
SECTION IX – PREPARATION INFORMATION			
Additional Information The information in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or any process.			
Sources Used MSDS: General chemical references			
Prepared by Seventh Generation, Inc.	Telephone Number 800-456-1191	Date 27 March 2006	
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