

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			

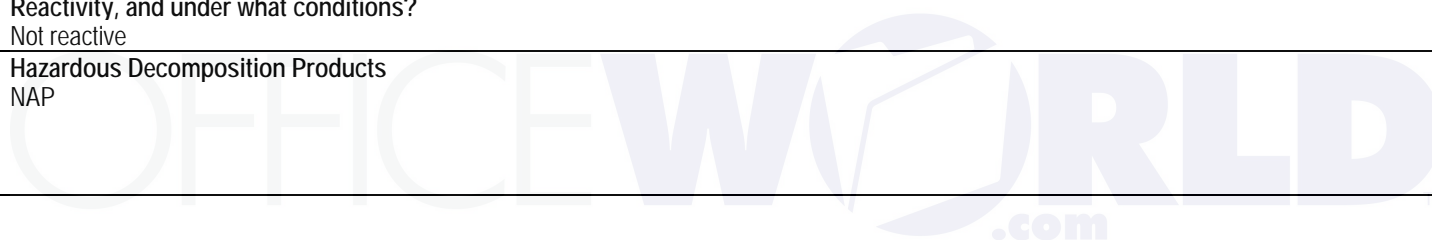
SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

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			

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Material Name

Automatic Dishwashing Detergent Powder

SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT**Route of Entry** Skin Contact Skin Absorption Eye Contact Inhalation, Acute Inhalation, Chronic 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.

LD₅₀ of Product

NAV

Irritancy of Product

May cause irritation to eyes and skin

Exposure Limits of Product

NAV

LC₅₀ of Product

NAV

Sensitization to Product

NAV

Synergistic Materials

NAV

Chronic Toxicities Carcinogenic Reproductive Toxin Teratogenic 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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