



automatic dishwashing detergent material safety data sheet

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section I - product identification

Product Name:	Automatic Dishwashing Detergent
Formula:	Proprietary
MSDS Date of Preparation:	January 9, 2012
HMIS:	Health=2 Flammability=0 Reactivity=0 Personal Protection C

section II - ingredients

<u>Ingredient Name</u>	<u>CAS. No.</u>	<u>Percent</u>
Sodium Carbonate (soda ash)	497-19-8	15 - 20%
Sodium Citrate	68-04-2	10 - 20%
Sodium Metasilicate	1433-09-8	20 - 30%
Sodium Percarbonate	15630-89-4	25 - 45%
Sodium Sulfate	7727-73-3	10 - 16%
Crystalline Silica	112926-00-8	0.0 - 2.0%
C8-Alkylphenol Ethoxylate	1343-98-2	0.5 - 10%
Sodium Polyaspartate	181828-06-8	1.0 - 5.0%
Sodium Iminodisuccinate	144538-83-0	1.0 - 8.0%
Alpha-Amylase enzyme	9000-90-2	0.1 - 5.0%
Protease enzyme	9014-01-1	0.1 - 5.0%

section III - physical data

Boiling Point (Degrees F): Decomposes	Specific Gravity: 0.8 - 1.0 g/cc
Freezing Point (Degrees F): N/A	Percent Volatile by Volume: N/A
Vapor Pressure: N/A	Evaporation Rate: N/A
Appearance: White Powder	Vapor Density: N/A
Odor: Slight	pH: 10.9-11.1

section IV - fire and explosion hazard

Flash Point (Degrees F):	N.A.
Flammability Classification:	Non-Flammable LEL: N.A. UEL: N.A.
DOT Classification:	N/A
Extinguishing Media:	Water Spray
Special Fire Fighting Procedures:	Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-Approved self-contained breathing apparatus.
Unusual Fire Explosion Hazards:	Decomposes with the liberation of oxygen. The presence of moisture accelerates decomposition.

section V - health hazard data

Threshold Limit Value:	Not Established Recommended Exposure Limits For Particulates Not Otherwise Regulated Be used As A Guide: 15 mg/m ³ (Total Dust), 5 mg/m ³ (Respirable Fraction); 10mg/m ³ (Inhalable Particulate), 3 mg/m ³ (Respirable Particulate) (Inhalable (total) particulate matter containing no asbestos and < 1% crystalline silica)
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Effects of Overexposure

Eye Contact:	Irritating to eyes. Delayed appearance of damage may occur.
Skin Contact:	May cause mild irritation to skin.
Inhalation:	Inhalation causes coughing and irritation of nose, throat, and mucous membranes. Causes irritation of the respiratory tract.
Ingestion:	Ingestion can cause damage to the mouth, esophagus, stomach, and other tissues with which contact is made. Can be harmful if swallowed.

Emergency and First Aid Procedures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. Call a physician if irritation persists
Skin Contact:	Flush area with water if irritation occurs. If irritation persists, get medical attention.
Inhalation:	Remove person to fresh air. Seek medical attention if respiratory irritation persists.
Ingestion:	Drink a quart of water. DO NOT induce vomiting. Seek medical attention.

section VI - reactivity data

Stability:	Stable.
Incompatibility:	Strong Oxidizers.
Hazardous Decomposition Products:	Liberates Oxygen and heat.
Hazardous Polymerization:	Will not occur.

section VII -spill or leak procedures

Release or Spill Procedures:	Sweep or scoop up and place in clean containers. Flush remaining area with water and dispose of residue properly.
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section VIII - special protection information

Respiratory Protection:	NIOSH approved respirator for dusts and mists.
Ventilation:	Maintain adequate ventilation. Avoid accumulation of dust.
Eye Protection:	Safety goggles or glasses.
Skin Protection:	Wear protective gloves and clothing.
Other Protective Equipment:	Eye wash station.

section IX - special precautions

Storage and Handling:	Store out of direct sunlight. Keep away from sources of heat. Keep containers tightly closed.
Other Precautions:	Avoid contact with skin and eyes. Do not swallow. Use with adequate ventilation.

section X - supplemental health information

None.

section XI - toxicological information

Carcinogenicity:	Should not be listed as carcinogenic according to IARC, NTP or OSHA
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section XII - ecological information

Ecotoxicology Information:	None.
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