



3-in-1 laundry detergent material safety data sheet

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section I - product identification

Product Name: 3-in-1 Laundry Detergent
Formula: Proprietary
MSDS Date of Preparation: November 30, 2011
HMIS: Health=2 Flammability=0 Reactivity=0
Personal Protection = C

section II - product ingredients

<u>Ingredient Name</u>	<u>CAS. No.</u>	<u>Percent</u>
Sodium Carbonate	497-19-8	35-55%
Sodium Citrate	68-04-2	10-20%
Sodium Metasilicate	1433-09-8	20-30%
Sodium Percarbonate	15630-89-4	25-45%
Crystalline Silica	112926-00-8	0-3%
C9-Alcohol Ethoxylate	68439-46-3	1-10%
C6-Alcohol Ethoxylate	68439-45-2	1-10%
Alpha-Amylase	9000-90-2	0-1%
Protease	9014-01-1	0-1%

section III - physical data

Boiling Point (Degrees F): Decomposes
Freezing Point (Degrees F): N/A
Vapor Pressure: N/A
Appearance : White Powder
Odor: None

Specific Gravity: 0.9 - 1.1
Percent Volatile by Volume: N/A
Evaporation Rate: N/A
Vapor Density: N/A
pH: 10.9-11.1 (5% solution)

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

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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.
Ingestion:	Drink a quart of water. DO NOT induce vomiting. Seek medical attention.
Inhalation:	Remove person to fresh air. Seek medical attention if respiratory irritation persists.

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 Protections:	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.
Disposal:	Dispose of in accordance with local, state and federal regulations.

section X - supplemental health information

None.

section XI - toxicological information

None.

section XII - ecological information

Environmental Fate:	This product is biodegradable.
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