

Material Safety Data Sheet

Automatic Dishwasher Powder

Manufacturer Information

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Date Prepared:

3/8/11

Hazardous Composition

CAS #	Component	Percent
15630-89-4	Sodium percarbonate	1-10
13870-28-5	Silicic acid (H ₂ Si ₂ O ₅), disodium salt	1-10
497-19-8	Sodium carbonate	1-10
9014-01-1	Subtilisins (proteolytic enzymes)	0.01-0.1
9000-90-2	Amylase, α -	0.01-0.1
Not Available	Perfume	0.01-0.1

Component Exposure Limits

Subtilisins (proteolytic enzymes) (9014-01-1)

ACGIH: 0.00006 mg/m³ Ceiling (as crystalline active enzyme, listed under Subtilisins)
OSHA: 0.00006 mg/m³ STEL (60 min)
NIOSH: 0.00006 mg/m³ STEL (60 min, listed under Subtilisins)

Physical/Chemical Properties

Appearance: White	Odor: Citrus Fruits
Physical State: Powder	pH: 10 (1% conc)
Vapor Pressure: ND	Vapor Density: ND
Boiling Point: ND	Melting Point: ND
Solubility (H₂O): Complete	Specific Gravity: 1.302 kg/l
Evaporation Rate: ND	VOC: 0.03
Octanol/H₂O Coeff.: ND	Flash Point: >100°C
Flash Point Method: ND	Upper Flammability Limit (UFL): None
Lower Flammability Limit (LFL): None	Burning Rate: ND
Auto Ignition: ND	

Fire and Explosion

Flash Point: >100°C
Upper Flammable Limit (UFL): None
Auto Ignition: ND
Rate of Burning: ND

Method Used: ND
Lower Flammable Limit (LFL): None
Flammability Classification: None

Extinguishing Media:

Use appropriate media for surrounding fire. Contains oxidizing percarbonate that can release oxygen by activation. Therefore don't sprinkle water on dry product.

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Special Fire Fighting Procedures:

Firefighters should wear full protective gear.

Unusual Fire and Explosion Hazards:

None

Reactivity Data

Stability:

Even when properly stored, the sodium carbonate peroxide will lose activity. Therefore it is recommended to consume the product within a year.

Hazardous Decomposition:

None under normal conditions.

Incompatibility:

Metals, organic compounds, hypochlorite, and combustibles.

Hazardous Polymerization:

Will not occur.

Conditions To Avoid:

Heat and moisture.

Health Hazard Data

Routes of Entry:

Eye

Acute Skin Contact:

None under normal conditions.

Chronic Skin Contact:

Not Determined

Acute Eye Contact:

Not expected to present a significant eye contact hazard under anticipated conditions of normal use. Direct contact with the eyes is likely irritating.

Acute Ingestion:

May cause gastrointestinal irritation if swallowed. Symptoms include diarrhea, nausea, vomiting, and abdominal pain.

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Medical Conditions Aggravated by Exposure:

None

EMERGENCY & FIRST AID PROCEDURES

Ingestion:

Drink large quantities of milk or water. Do not induce vomiting.

Inhalation:

None needed.

Skin Contact:

Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated clothing.

Eye Contact:

Rinse immediately and thoroughly with plenty of water for at least 15 minutes (also assure adequate flushing under the eyelids and if possible after having removed contact lenses). Seek medical attention.

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Precautions for Safe Handling and Use

Steps to taken in case of release or spill:

Stop the flow of material, if this is without risk. Isolate area. Keep unnecessary personnel away. Collect usable powder residues in a clean, lockable container for reuse. Sweep polluted powder as chemical waste and remove the residues with water and plunger. Avoid release to the environment.

Waste Disposal Method:

Waste of this product is considered chemical waste. The legislation concerning disposal of waste can differ from one country/state to another. The disposal should therefore be done according to national or local waste legislation. If in doubt, ask the local waste management authority for advice.

Handling and Storage

Avoid contact with eyes. Store in a cool and frost-free place, out of the reach of children.

Transportation Information:

US DOT Information

Shipping Name: Not Regulated

Control Measures

Respiratory:

None required under normal product use conditions.

Monitoring:

Not Applicable

Medical Surveillance:

Not Applicable

Skin:

Wear waterproof gloves (preferably neoprene or nitrile rubber) in case of intensive use or contact with undiluted product.

Eyes:

Wear safety goggles when clearing accidentally released material and if there is a risk of splashing.

Ventilation Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Other Information:

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.