

Material Safety Data Sheet

Stain Remover

Manufacturer Information

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Hazardous Composition

CAS #	Component	Percent
110615-47-9	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	5-15
100-51-6	Benzyl alcohol	1-5
64-17-5	Ethyl alcohol	1-5
68891-38-3	Poly(oxy-1,2-ethanediyl), α -sulfo- ω -hydroxy-, C12-14-alkyl ethers, sodium salts	1-5
Not Available	Perfume	0.1-1
9012-54-8	Cellulase	0.01-0.1
78-70-6	Linalool	0.01-0.1
9014-01-1	Subtilisins (proteolytic enzymes)	0.01-0.1

Component Exposure Limits

Ethyl alcohol (64-17-5)

ACGIH: 1000 ppm STEL
OSHA: 1000 ppm TWA; 1900 mg/m3 TWA
NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

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: Colorless	Odor: Lavender
Physical State: Liquid	pH: 6.5
Vapor Pressure: ND	Vapor Density: ND
Boiling Point: ND	Melting Point: NA
Solubility (H2O): Soluble	Specific Gravity: 1.027 kg/l
Evaporation Rate: ND	VOC: 1.352
Viscosity: 2550 cP	Octanol/H2O Coeff.:
Flash Point: >60°C	Flash Point Method: ND
Upper Flammability Limit (UFL): ND	Lower Flammability Limit (LFL): ND
Burning Rate: ND	Auto Ignition: ND

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Fire and Explosion

Flash Point: >60°C
Upper Flammable Limit (UFL): ND
Auto Ignition: ND
Rate of Burning: ND

Method Used: ND
Lower Flammable Limit (LFL): ND
Flammability Classification:

Extinguishing Media:

All extinguishing media can be used.

Special Fire Fighting Procedures:

Firefighters should wear full protective gear.

Unusual Fire and Explosion Hazards:

None

Reactivity Data

Stability:

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

Hazardous Decomposition:

None under normal conditions.

Incompatibility:

Acids

Hazardous Polymerization:

Will not occur.

Conditions To Avoid:

Do not store <0°C and >40°C.

Health Hazard Data

Routes of Entry:

Eyes

Acute Skin Contact:

Prolonged or repeated contact may cause skin to become dry.

Chronic Skin Contact:

Not Determined.

Acute Eye Contact:

Direct contact with the eyes is likely irritating.

Acute Ingestion:

May cause abdominal pain, diarrhea, nausea, vomiting.

Carcinogenicity:

Component Carcinogenicity

Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))

Medical Conditions Aggravated by Exposure:

None

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EMERGENCY & FIRST AID PROCEDURES

Ingestion:

Drink large quantities of milk, egg whites, gelatin solutions, or if these are not available, drink large quantities of water. Do not induce vomiting.

Inhalation:

None needed.

Skin Contact:

Rinse immediately with plenty of water.

Eye Contact:

Rinse for a long time with cold, running water.

Precautions for Safe Handling and Use

Steps to taken in case of release or spill:

Recover usable material in a clean closable container for reuse. Sweep up contaminated material and dispose of as chemical waste. Remove the remainder with water. 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 skin and eyes. Wear waterproof gloves (preferably neoprene or nitrile rubber) in case of intensive use or contact with undiluted product. 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 when taking up intensively material which is accidentally released. Persons with a sensitive skin are also recommended to wear waterproof gloves.

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.

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Other Information:

Additional Information

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