

Material Safety Data Sheet

Automatic Dishwasher Tablets

Manufacturer Information

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ECOVER BELGIUM NV
Industrieweg 3
2390 Malle Belgique-Belgie

Phone: +32 (0)3 309 25 00
Fax: +32 (0)3 311 72 70
Emergency # +32 (0)3 309 25 00

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Hazardous Composition

CAS #	Component	Percent
6132-04-3	Citrate, sodium, dihydrate	30
15630-89-4	Sodium percarbonate	15-30
13870-28-5	Silicic acid (H ₂ Si ₂ O ₅), disodium salt	5-15
497-19-8	Sodium carbonate	5-15
50-70-4	D-Glucitol	1-5
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	0.1-1
5989-27-5	D-Limonene	0.01-0.1
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/yellow tablets	Odor:	Citrus
Physical State:	Solid	pH:	1% concentrate
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	NA
Solubility (H₂O):	Soluble	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	0.09
Octanol/H₂O Coeff.:		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:

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Extinguishing Media:

Use appropriate media for surrounding fire.

Special Fire Fighting Procedures:

Firefighters should wear full protective gear.

Unusual Fire and Explosion Hazards:

Contains oxidizing percarbonate that can release oxygen by activation. Therefore don't sprinkle water on dry product.

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:

Reducing Agents, Combustibles, Acids.

Hazardous Polymerization:

Will not occur.

Conditions To Avoid:

Moisture. Do not store <0°C and >30°C.

Health Hazard Data

Routes of Entry:

Eyes

Acute Skin Contact:

Not expected to present a significant skin hazard.

Chronic Skin Contact:

Not Determined.

Acute Eye Contact:

Direct contact with the eyes is likely irritating.

Acute Ingestion:

May cause abdominal pain, nausea, vomiting.

Carcinogenicity:

Component Carcinogenicity

D-Limonene (5989-27-5)

IARC: Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data) (Group 3 (not classifiable))

Medical Conditions Aggravated by Exposure:

None

EMERGENCY & FIRST AID PROCEDURES

Ingestion:

Wash out mouth and do not induce vomiting. Seek medical attention.

Inhalation:

Move person to non-contaminated air.

Skin Contact:

Flush with plenty of water. Seek medical attention if ill effect or irritation develops.

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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.

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. Sweep up spilled material. Rinse away 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 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 when cleaning spilled material.

Eyes:

Wear safety goggles when cleaning accidentally released material.

Ventilation Controls

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

Other Information:

Additional Information

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