

в Доймной-Доймной соперапу Division of Ethican, Inc.

Material Safety Data Sheet

MSDS-008

Product Name:

ENZOL® Enzymatic Detergent

Issue date:

10-3-07

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:

Advanced Sterilization Products 33 Technology Drive Irvine, CA 92618

Customer Service Telephone:

888-783-7723

Emergency telephone number: 877-208-6653 (24 hours)

Product name:

Synonyms:

ENZOL® Enzymatic Detergent CIDEZYME® Enzymatic Detergent

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	J&J - OEL Data (TWA - 8 hr)	J&J - OEL Data (STEL):	J&J - OEL Data (Ceiling Limit	J&J - PBOEL
			(,	(-:/	Value):	
Subtilisins (proteolytic enzymes)	9014-01-1	<5	Not Determined	Not Determined	60 ng/m³	3B

3. HAZARDS IDENTIFICATION

Emergency overview:

Not flammable or expected to be a significant health hazard.

Properties affecting health:

May cause sensitization by skin contact.

Irritating to the eyes, skin, mucous membranes, gastrointestinal and upper

respiratory tract.

Principle routes of exposure:

Oral:

Ingestion may cause irritation to mucous membranes.

Eye contact:

Irritating to eyes.

Skin contact:

Irritating to skin. May cause sensitization by skin contact.

Ingestion:

Ingestion of this material may cause symptoms such as nausea, vomiting, gastric

distress, diarrhea and headache.

Inhalation:

Fragrance may cause irritation.

Hazard information:

Target organ effects:

Unknown on product.

Reproductive effects: Mutagenic effects:

Unknown on product. Unknown on product.

Sensitization:

May cause sensitization by skin contact.

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WARNING: This is a controlled proprietary and confidential document. Verify revision is current prior to use.

Carcinogenicity rating:

Components	CAS Number	J & J:	NTP:	IARC:	California
					Proposition 65 List:
Subtilisins (proteolytic enzymes)	9014-01-1	Not Determined	Not Determined	Not Determined	Not Determined

Signs and symptoms:

Potential allergic reaction.

Medical conditions

Eye contact:

Potential allergic reaction.

aggravated by exposure:

4. FIRST AID MEASURES

In the case of contact with eyes, rinse immediately with plenty of water for 15

minutes and seek medical attention.

Ingestion: Do not induce vomiting. If ingested, seek medical attention immediately and show

the label.

Inhalation: Move to fresh air immediately. If experiencing difficulty breathing, seek medical

attention.

Skin contact: If the product causes skin irritation or sensitization, contact a physician

immediately.

Protection of first-aiders:

None.

Notes to physician:

None.

5. FIRE-FIGHTING MEASURES

Flash point (°F):

>200

Flash point (°C):

>93 ° C

Autoignition temperature:

Not applicable.

Flammable limits in air - lower (%):

Not applicable.

Flammable limits in air - upper (%):

Not applicable.

NFPA rating:

Health: 1 flammability: 0 reactivity: 0

Fire fighting information:

Suitable extinguishing media:

Use any extinguishing media which is suitable for the

surrounding fire.

Extinguishing media which must not be

used for safety reasons:

None.

Specific methods:

None.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for fire fighting if

necessary.

Hazardous combustion products:

None.

Explosivity:

Not applicable.

Explosion limits:

lower:

Not applicable.

upper:

Not applicable.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear eye and skin protection while handling material for clean-up.

Wear dust/mist respirator if material is aerosolized.

Environmental precautions: Collect and discard into appropriate container, then dispose of in accordance with

all applicable federal, state and local regulations.

Methods for cleaning up: Contain, absorb and transfer to disposable container.

Dilute with plenty of water.

Clean thoroughly.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Safe handling advice:

Ensure adequate ventilation.

Wear safety glasses and gloves.

Storage:

Technical measures/storage conditions:

Store at 59-86°F (15-30°C).

Incompatible products:

None known..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation especially in confined areas.

Eye protection: Eye protection required.

Hand protection: Chemical resistant gloves required.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None required under normal use...

Other/general protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

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Physical state:

pH: Odor: Clear Liquid

Violet 7.8-8.8

Spearmint

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Hazard polymerization: Will not occur.

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

Materials to avoid: None known...

Conditions to avoid: Temperatures above 40°C

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11. TOXICOLOGICAL INFORMATION

Acute toxicity Unknown on product

Local effects

Oral:

Ingestion may cause irritation to mucous membranes

Eye irritation Skin irritation:

Irritating to the eyes. Irritating to the skin.

Inhalation:

Not a likely route of exposure. Irritating to respiratory system by inhalation.

Chronic toxicity

Unknown on product

Subchronic toxicity

Unknown on product

Specific effects

Corrosivity:

Not corrosive

Sensitization:

May cause sensitization by skin contact.

Target organ effects: Mutagenic effects: Reproductive effects: Developmental effects: Unknown on product. Unknown on product. Unknown on product. Unknown on product.

Carcinogenic effects:

Unknown on product.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic toxicity effects:

This product has no known eco-toxicological effects. This product has no known aquatic toxicological effects.

Mobility:

Unknown on product.

Persistence / degradability: Bioaccumulation:

Unknown on product. Unknown on product.

Degradation:

Unknown on product.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate

US, Federal, State and International regulations..

Contaminated packaging:

None.

Methods for cleaning up:

Contain, absorb and transfer to disposable container.

Dilute with plenty of water.

Clean thoroughly.

14. TRANSPORT INFORMATION

DOT:

DOT UN-No:

Not applicable

DOT shipping name: Hazard class:

Not regulated

Subsidiary risk (hazard class):

Not applicable Not applicable

Packing group:

Not applicable

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DOT reportable quantity (lbs):

Not applicable

IMO/IMDG:

Hazard class: IMDG page: IMO-labels: Packing group: MFAG table No.: Proper shipping name:

UN/ld No.:

Not applicable Not applicable Not applicable Not applicable Not applicable Not regulated

Not applicable

ADR/RID:

Hazard class/packing group: item:

ADR/RID-labels: UN/Id No.: Proper shipping name TREM-card:

Not applicable Not applicable Not applicable Not applicable

> Not applicable Not applicable

Not applicable

Not applicable

Not regulated

Not applicable

Not applicable

Not applicable

IATA/ICAO:

Hazard class: Packing group: Proper shipping name: ID/UN No.:

IATA - label: ERG#

TDG (Canada):

Status: Packing group: Not applicable Not applicable

15. REGULATORY INFORMATION

Components	CAS Number	Weight %	EPCRA (SARA Title III) Section 313 Toxic Chemical -	EPCRA (SARA Title III) Section 302 Extremely Hazardous Substance -	CERCLA Hazardous Substances:	RCRA status:
Subtilisins (proteolytic enzymes)	9014-01-1	1-5	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Components	CAS Number	Weight %	ACGIH TLV (TWA -	ACGIH TLV (STEL)	ACGIH TLV (Ceiling
			8hr)		Limits)
Subtilisins (proteolytic enzymes)	9014-01-1	1-5	Not determined.	Not determined.	0.00006 mg/m ³
					100% pure crystalline
					enzyme

Components	CAS Number	Weight %	OSHA (TWA - 8hr)	OSHA (STEL)	OSHA (Ceiling Limits)
Subtilisins (proteolytic enzymes)	9014-01-1	1-5	Not determined.	0.00006 mg/m ³	Not determined.

SARA (311, 312) hazard class:

Immediate health:

None

Delayed health:

None

Fire:

None

Sudden Release of

None

Pressure Hazard:

Reactivity:

None

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Components	CAS Number	Weight %	New Jersey RTK List:		Massachuset ts RTK List:	Connecticut Hazardous	Michigan Critical List:
		L				Material List:	
Subtilisins (proteolytic enzymes)	9014-01-1	1-5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

TSCA inventory list:

Listed under TSCA: Yes

WHMIS:

WHMIS trade secret:

None

WHMIS hazard class:

D2B Toxic Materials



Canada DSL inventory list:

Listed on DSL: Yes

Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.

- CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
- 3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act
- 4. TSCA = Toxic Substance Control Act
- 5. WHMIS = Canadian Workplace Hazardous Materials Information System
- This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):

None

Additional advice

None

Literary Reference:

None

MSDS format:

North American Format - U.S. and Canada

This Material Safety Data Sheet was prepared in accordance with OSHA 29 CFR

1910.1200.

Disclaimer:

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End of Safety Data Sheet

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