

Conforms to 91/155/EC-2001/58/EC - United Kingdom (UK)

SAFETY DATA SHEET

ENZ-OUT

1 Identificatic Identification of the substance/preparation and of the company

Product Name **ENZ-OUT** Manufacturer: CFR, A Tacony Company
3101 Wichita Court
Fort Worth, TX 76140-1710
800-880-2913 EXT 150

Supplier: CFR, A Tacony Company
3101 Wichita Court
Fort Worth, TX 76140-1710
800-880-2913 EXT 150

Emergency telephone number:

Material uses: Liquid spot and stain remover with enzymes

2 Composition/information on ingredients

Substance/Preparation: Preparation

Chemical Name	CAS no.	%	EC Number	Classification
Alpha amylase	9000-85-5	0.5-1.5	232-560-9	X _i , R36/38
Propylene glycol	57-55-6	15-40	200-338-0	
Subtilisin protease enzyme	01/01/9014	1-5	232-752-2	X _i , R37/38, R41, R42
Methyloxirane polymer, monoctyl ether	37311-02-7	1-5		
Methyloxirane polymer, monohexyl ether	52232-09-4	1-5		
Methyloxirane polymer, monodecyl ether	37251-67-5	1-5		

* Occupational Exposure Limits, if available, are listed in Section 8

3 Hazards Identification

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments

Classification

Effects and Symptoms

Inhalation: May cause respiratory tract irritation. May cause sensitization by inhalation
Skin Contact: May cause irritation.
Eye Contact: May cause eye irritation.
Ingestion: May cause stomach distress, nausea, or vomiting.

Aggravating Conditions: Prolonged or re Repeated/prolonged exposure not known to aggravate condition.

4 First-aid Measures

First-aid measures

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion: Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention.
Skin Contact: Immediately flush skin with plenty of water. Cold water may be used. Obtain medical attention.
Eye contact: Check for and remove any contact lenses. Immediately flush eyes with copius amount of water for 15 minutes. Cold water may be used. Obtain medial attention.

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5 Fire-fighting measures

Extinguishing Media

Suitable: Dry chemical, water spray or foam, carbon dioxide.

Special fire-fighting procedures: Fire -fighters should wear self contained breathing apparatus (SCBA) and full turn-out gear.

6 Accidental release measures

Personal Precautions: Safety glasses. Rubber gloves. Protective clothing as required by employer code.

Environmental precautions and cleanup methods Absorb with inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on spill, allow to drain to sewer. Prevent large spills from entering sewers or waterways.

Note: See section 8 for personal protective equipment and section 13 for waste disposal

7 Handling and storage

Handling: Do not ingest. Do not breath gas/fumes/vapour/spray. Wear protective clothing. If ingested, seek medical advice immediately. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool well ventilated area.

Packaging materials

Recommended use: Use original container.

8 Exposure controls/personal protection

Engineering measures: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below the respective threshold limits.

Hygiene measures: Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day.

Ingredient Name	Occupational Exposure Limits
Propylene glycol	Not available
Alpha amylase	Not available
Subtilisin protease enzyme	0.00006mg/m ³ Ceiling
Methyloxirane polymers	Not available

Personal protective equipment

Respiratory system: Not normally required if good ventilation is maintained.

Skin and body: As required by employer code.

Hands: Rubber gloves

Eyes: Safety glasses

9 Physical and chemical properties

Physical state: Clear liquid

Colour: Light tan

Odour: Natural

pH: 7.0-8.0 (100%)

Boiling point: Greater than 100 degrees C. (212 F.)

Melting point: May start to solidify at minus 0.1 degrees C.

Flash point: None

Explosive properties: Risks in presence of mechanical impact: Not known

Risks in presence of static discharge: Not known

Oxidizing properties: None

Vapour pressure: Not available

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9 Physical and chemical properties continued

Specific Gravity: 1.02-1.05
Solubility: Soluble in water at all proportions.
Vapour density: Not available
Evaporation rate(butyl acetate=1): Not available

10 Stability and reactivity

Stability: This product is stable.
Materials to avoid: Oxidizing agents.

11 Toxicological information

Acute Toxicity

Ingredient Name	Test	Results	Route	Species
Propylene glycol	LD50	20000mg/kg	oral	rat
Subtilisin protease enzyme	LD50	2000mg/kg	oral	rat
Methyloxirane polymer, monohexyl ether	LD50	3000mg/kg	oral	rat

Local effects:

Skin irritation: May cause skin irritation upon contact.
Eye Irritation: May cause eye irritation.
Sensitization: Contains a potential sensitizer by inhalation (Subtilisin protease enzyme).

Chronic Toxicity Repeated or prolonged exposure may cause drying defatting or dermatitis to skin.

Developmental and
teratogenic effects: Not Available.

12 Ecological Information

13 Disposal considerations

Methods of disposal: Waste of residues: Waste must be disposed of in accordance with federal
Contaminated packaging: state and local environmental control regulations.
Waste Classification: Not available
European Waste Catalogue(EWC): Not available
Hazardous Waste: To present knowledge of supplier, this product is not regarded as
hazardous waste per EU Directive 94/904/EC

14 Transport information

International transport regulations

Regulatory Information	UN Number	Proper shipping name	Class	Packaging group	Label	Additional Information
ARD/RID Class	Not regulated					
ADN Class	Not regulated					
IMDG Class	Not regulated					
IATA-DGR Class	Not regulated					

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15 Regulatory information

EU Regulations

Safety phrases: Not Applicable
Product use: Classification and labeling have been performed according to EU Directives 67/548/EEC, 88/379/EEC, including amendments and the intended use. Industrial applications.

National regulations

VOC Content (Retail use):
VOC Content (Industrial use): Contains < 0.1% VOC.

Hazard symbols:

Risk phrases: This product is not classified according to EU regulations.

16 Other information

Full text of R phrases with no. appearing in Section 2- (UK)
R36- Irritating to eyes.
R37/38-irritating to respiratory system and skin
R41-Risk of serious damage to eyes
R42-May cause sensitization by inhalation

Text of classifications in Section 2- (UK)
Xi- Irritant

History

Date of Printing: 20/12/2006
Date of Issue: 20/12/2006
Date of previous issue: No previous issue
Version: 1
Prepared by: CFR, A Tacony Company

Notice to Reader

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Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.