SAFETY DATA SHEET



1. Identification

Product Identifier Ultra Enzyme LO

Other means of

identification UL-EZ200

Product code

Recommended use Fluid cleaner.

Recommended restrictions For use only in Dornoch Medical System Fluid Carts.

Manufacturer/distributor/supplier information

Company name Dornoch Medical Systems

Address 200 NW Parkway Drive
Parkville, MO 64150

Telephone (888) 466-6633

Emergency phone number PERS (800) 633-8253

24 hour Emergency (800) 633-8253

2. Hazard(s) Identification

Physical hazards Not classified.

Health hazards Skin irritation Category 3

Eye irritation Category 2A

Environmental hazards Not classified **OSHA defined hazards** Not listed.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation.
Causes mild skin irritation.

Precautionary statement

Prevention Wear eye protection/face protection. Wash hands and exposed skin thoroughly after

handling.

Response If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. If eye irritation persists: Get medical advice/attention.

Storage Disposal

Hazard(s) not otherwise None

classified (HNOC)

Supplemental information None

3. Composition/information on ingredients

Mixtures

Mixtures		
Chemical name	CAS number	%
Diethylene glycol monoethyl ether	111-90-0	4-8
Tetrasodium ethylenediamine tetraacetate	64-02-8	1-3
Other components below reportable levels		90-100

Material Name: Ultra Enzyme LO GD-99039 Rev 2

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Eve contact

Dermatitis. Rash. May cause an allergic skin reaction.

Get medical attention. Eye wash stations should be located in work area.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general support measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)

None known

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Wear appropriate protective equipment and clothing during clean-up. Wear eye/face

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

protection.

Methods and materials for containment and cleaning up Caution - spillages may be slippery

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent

entry into waterways, sewer, basements or confined areas.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the

Environmental precautions Do not release into the environment (see section 12). Avoid discharge into areas not

consistent with package labeling.

7. Handling and storage

Precautions for safe handling Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate

personal protective equipment. Observe good industrial hygiene practices.

SDS US

Material Name: Ultra Enzyme LO

Conditions for safe storage,

Store in original tightly closed container. Do not store in extreme conditions.

including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US AIHA Workplace Environmental Exposure Level (WEEL) Guides (2009)

Components Type Value

Diethylene glycol monoethyl ether TWA 25 ppm (140 mg/m³)

Biological limit values

None established

Appropriate engineering

Emergency eye wash stations and showers should be readily accessible. Provide natural or

controls

mechanical ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other None.

Respiratory protection Respiratory protection not required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical State Clear liquid
Color Green
Odor Bland

Odor threshold Not available.

pH 8.7-9.3

Melting/freezing point Not available.

Initial boiling point and >212°F (100°C)

boiling range

Flash point >385°F (196°C)
Evaporation rate Not available.
Flammability Not available.

Flammability Limits

Upper Not available.
Lower Not available.
Vapor pressure Not available.
Vapor density Not available.

Specific gravity (water=1)1.01Solubility in waterSolublePartition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Decomposes on heating.

Viscosity Not available.

10. Stability and reactivity

Reactivity This product is stable and non-reactive under normal conditions of use.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Heat, flames can cause product to decompose. Incompatible materials Strong acids, strong bases, strong oxidizing agents.

Hazardous decomposition

products

Aldehydes, ketones, organic acids.

11. Toxicological information

Information on likely routes

of exposure

Ingestion Expected to be a low ingestion hazard. Inhalation Expected to be a low inhalation hazard.

Skin contact Repeated and/or prolonged skin contact may cause slight irritation.

Eye contact Avoid contact with eyes. Causes serious eye irritation. Symptoms related to the Dermatitis. Rash. May cause an allergic skin reaction.

physical, chemical and

toxicological characteristics

Acute toxicity Not established.

Product	Route and Species	LD50
Ultra Enzyme LO (CAS mixture)		
Acute	<i>Oral,</i> rat	>5,000 mg/kg estimated

^{*}Estimates for product may be based on additional component data not shown

Skin corrosion/irritation May cause mild skin irritation. Serious eye damage/ Causes serious eye irritation.

irritation

Respiratory sensitization Not classified. Skin sensitization Not classified. Germ cell mutagenicity Not classified.

Carcinogenicity Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not Listed.

Reproductive toxicity Not classified. Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity Not classified.

- repeated exposure

Aspiration hazard Not considered an aspiration hazard.

Material Name: Ultra Enzyme LO

12. Ecological information

Ecotoxicity

Product	Species	Test Results
Ultra Enzyme LO (CAS m	nixture)	
Aquatic		
Fish	Fathead	LC ₅₀ (96hr): 3,200 mg/L estimated

^{*}Estimates for product may be based on additional component data not shown

Persistence and degradability Diethylene glycol monoethyl ether: considered readily biodegradable.

Bioaccumulative potential Bioaccumulative potential is low.

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations

Waste from residues/unused

product

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Since emptied containers may contain product residue, follow label warnings even

after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

SARA 302 Extremely hazardous substance

Not listed.

SARA 304 Emergency release notification

Not listed.

SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard – No

Reactivity Hazard - No

SARA 313 (TRI reporting)

Not listed.

16. Other information, including date of preparation or last revision

Issue date 2/5/2015

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Version #

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0

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NFPA ratings Health: 1

Flammability: 0 Instability: 0

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and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by

the text.

Revision information First issue