

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Enzymax Spray Gel

Other means of identification IMS-1229SP

IMS-1229 Cleaner

Recommended use

Recommended restrictions None known.

Manufacturer Hu-Friedy Mfg. Co., LLC

3232 N. Rockwell

Chicago, IL 60618-5982 US Phone: 773.975.6100 Fax: 773.868.3599

Emergency Phone: 1-800-535-5053 Outside US: 001-352-323-3500

2. Hazards Identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

от арриоавіо.

Mixture

Chemical name	Common name and synonyms	CAS number	%
1,2-Propanediol		57-55-6	5 - 10

Composition comments None by OSHA criteria.

4. First Aid Measures

3. Composition/Information on Ingredients

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention of you feel unwell.

Skin contact If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

Eye contact In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact

lenses, if worn. If irritation persists, get medical attention.

Direct contact with eyes may cause temporary irritation.

Ingestion If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

medical attention and special treatment needed

Treat symptomatically.

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

protect themselves.

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5. Fire Fighting Measures Suitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective 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

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

Hazardous combustion

products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical

impact

Not available.

Sensitivity to static

discharge

Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk.

Large Spills: 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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Avoid contact with eyes and skin. Avoid breathing mists or vapors. Do not swallow. Handle and open container with care. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value **Form** 1,2-Propanediol (CAS TWA 10 mg/m3 Aerosol. 57-55-6)

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

See above

Appropriate engineering

Ensure adequate ventilation.

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Not normally needed.

Skin protection

Not normally needed.

Hand protection Other

Wear suitable protective clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#25522 Page: 2 of 6 Issue date 19-January-2015 General hygiene considerations

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.

9. Physical and Chemical Properties

Appearance Viscous Physical state Liquid. **Form** Liquid. Color Light yellow Odor Fresh

Odor threshold Not available.

8.5

Melting point/freezing point Not available. Initial boiling point and boiling Not available. range

Not available. Pour point Not available. Specific gravity **Partition coefficient** Not available.

(n-octanol/water)

Flash point > 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Relative density 1.01

Solubility(ies) Complete Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity**

10. Stability and Reactivity

Reactivity

This product may react with oxidizing agents.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Material is stable under normal conditions. Contact with incompatible materials. Heat. Conditions to avoid

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure Eye. Skin contact. Inhalation. Ingestion.

Information on likely routes of exposure

Ingestion May be harmful if swallowed.

Inhalation May cause irritation to the respiratory system.

Skin contact May be irritating to the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

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Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision.

Symptoms may include stomach distress, nausea or vomiting.

Symptoms may include redness, drying, defatting and cracking of the skin.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
1,2-Propanediol (CAS 57-55-6)			
Acute			
Dermal			
LD50	Rabbit	20800 mg/kg	
Inhalation			
LC50	Not available		
Oral			
LD50	Dog	19000 mg/kg	
	Guinea pig	184000 mg/kg	
	Mouse	23900 mg/kg	
	Rabbit	14800 mg/kg	
	Rat	20000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not classified.		
Skin sensitization	This product is not expected to cause skin sensitizat	ion.	
Germ cell mutagenicity	Not classified.		
Mutagenicity	Not classified.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Teratogenicity	Not classified.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity -	Not classified		

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard Not classified.

Chronic effects Not classified.

Further information This product has no known adverse effect on human health.

Name of Toxicologically Synergistic Products

Not available.

12. Ecological Information

Ecotoxicity	See below			
Components		Species	Test Results	
1,2-Propanediol (CAS 57-55-6)				
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours	

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Test Results Components **Species** Aquatic Crustacea EC50 > 10000 mg/l, 48 hours Water flea (Daphnia magna) Fish LC50 Fathead minnow (Pimephales promelas) 710 mg/l, 96 hours Persistence and degradability No data is available on the degradability of this product.

No data available. Bioaccumulative potential Mobility in soil No data available. Not available. Mobility in general

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused Dispose of in accordance with local regulations. Empty containers or liners may retain some products

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

1,2-Propanediol (CAS 57-55-6) 1 %

WHMIS status Not Controlled

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

1,2-Propanediol (CAS 57-55-6)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance Nο

SARA 311/312 Hazardous

chemical

Nο

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US - Minnesota Haz Subs: Listed substance

1.2-Propanediol (CAS 57-55-6) Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

1,2-Propanediol (CAS 57-55-6) Listed.

US. Rhode Island RTK

Not regulated.

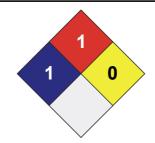
Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained

consequential damages which may result from the use of or reliance on any information contained in this document.

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Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)