SAFETY DATA SHEET



	1. Product and Company Identif	ication		
Product identifier	Enzymax Spray Gel			
Other means of identification	IMS-1229SP IMS-1229			
Recommended use	Cleaner			
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				
	None.			
Hazard symbol	None.			
Signal word Hazard statement	The mixture does not meet the criteria for classi	fination		
	The mixture does not meet the chiena for classi	lication.		
Precautionary statement Prevention	Observe good industrial bygione practices			
Response	Observe good industrial hygiene practices. 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.			
	3. Composition/Information on Ing	redients		
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			
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 i	rritation 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.			
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	Direct contact with eyes may cause temporary ir	ritation.		
Indication of immediate 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 media	Do not use water jet as an extinguisher, as this will spread the fire.
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 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	Stop the flow of material, if this is without risk.
containment and cleaning up	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 area
	. 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	
· ·	

Components	Туре	Value	Form	
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.	
iological limit values	No biological exposure limits noted for	the ingredient(s).		
xposure guidelines	See above	See above		
ppropriate engineering ontrols	Ensure adequate ventilation.			
dividual protection measure	s, such as personal protective equipme	nt		
Eye/face protection	Not normally needed.			
Skin protection				
Hand protection	Not normally needed.			
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 clo	othing, when necessary.		

General hygiene considerations

9. Physical and Chemical Properties

Appearance	Viscous	
Physical state	Liquid.	
Form	Liquid.	
Color	Light yellow	
Odor	Fresh	
Odor threshold	Not available.	
рН	8.5	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Pour point	Not available.	
Specific gravity	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Flash point	> 200.0 °F (> 93.3 °C) Tag Closed Cup	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1.01	
Solubility(ies)	Complete	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
	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.	
Conditions to avoid	Contact with incompatible materials. Heat.	
Incompatible materials	Strong oxidizing agents.	
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.	

Information on toxicological effects

1.2-Propanedici (CAS 57-55-6) Acute Dermal LD50 Rabbit 20800 mg/kg Inhalation LC50 Not available 7 Oral LD50 Dog 19000 mg/kg Guinea pig 184000 mg/kg Mouse 23900 mg/kg Rabbit 144000 mg/kg Rabbit 144000 mg/kg Rabbit 148000 mg/kg Rabbit Not available. Corola opacity value Not available. Conjunctival roddoning value Not available. Respiratory sensitization	Acute toxicity		
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Synergistic Products	Further information	This product has no known adverse effect on hum	an health.
12. Ecological Information	Name of Toxicologically Synergistic Products	Not available.	
		12. Ecological Information	

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

Components Aquatic		Species	Test Results
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	
Persistence and degradability	No data is av	ailable on the degradability of this product.	
Bioaccumulative potential	No data avail		
Mobility in soil	No data avail	able.	
Mobility in general	Not available		
Other adverse effects		erse environmental effects (e.g. ozone depl locrine disruption, global warming potential)	
	,	13. Disposal Considerations	
Disposal instructions	Dispose of co	ontents/container in accordance with local/re	egional/national/international regulations.
Local disposal regulations	Dispose in ac	cordance with all applicable regulations.	
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betwe pany.	en the user, the producer and the waste
Waste from residues / unused products		accordance with local regulations. Empty c ues. This material and its container must be ructions).	
Contaminated packaging		ners should be taken to an approved waste d containers may retain product residue, fol	
		14. Transport Information	
U.S. Department of Transportat Not regulated as dangerous of Transportation of Dangerous G	goods. oods (TDG - C a	anada)	
Not regulated as dangerous	goods.		
		15. Regulatory Information	
Canadian federal regulations		has been classified in accordance with the l and the SDS contains all the information rec	
Canada WHMIS Ingredient		reshold limits	
1,2-Propanediol (CAS 5	-	1 %	
WHMIS status	Not Controlle	d	
US federal regulations			
TSCA Section 12(b) Export	Notification (4)	0 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Subst	ance List (40 C	FR 302.4)	
Not listed. US CAA Section 111 Volati	le Organic Com	pounds: Listed substance	
1,2-Propanediol (CAS 5	•	Listed.	
	,	ntal Release Prevention (40 CFR 68.130)	
•	n 112 Hazardou	ıs Air Pollutants (HAPs) List	
Superfund Amendments and R	eauthorization	Act of 1986 (SARA)	
Hazard categories	Immediate Ha Delayed Haz Fire Hazard - Pressure Haz Reactivity Ha	ard - No No zard - No	
SARA 302 Extremely hazardous substance	No		
SARA 311/312 Hazardous chemical	No		

Other federal regulations			
Safe Drinking Water Act (SDWA)	Not regulated.		
Food and Drug Administration (FDA)	Not regulated.		
US state regulations	5	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 Proposit	ion 65 - Carcinogens & Repro	oductive Toxicity (CRT): Listed substanc	e
Not listed. US - Minnesota Haz Sul	os: Listed substance		
1,2-Propanediol (CAS 57-55-6) US - New Jersey RTK - Substances: Listed subs		Listed. e	
1,2-Propanediol (CAS 57-55-6) US - Texas Effects Screening Levels: Listed sub		Listed. ce	
1,2-Propanediol (CA US. Massachusetts RTF Not regulated. US. Pennsylvania RTK	,	Listed.	
1,2-Propanediol (CA US. Rhode Island RTK Not regulated.		Listed.	
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (D	SL)	No
Canada	Non-Domestic Substances Li	st (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act	t (TSCA) Inventory	Yes

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

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH 1 1 FLAMMABILITY 1 1 0 PHYSICAL HAZARD PERSONAL Х PROTECTION

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 in this document.
Issue date	19-January-2015
Effective date	15-January-2015
Expiry date	15-January-2018
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.

16. Other Information

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