



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 07-19-2019 Revision date: 12-01-2022 Version: 2.1

SECTION 1: Identification 1.1. Product identifier		
1.1. Product identifier		
	 Mixture Micro-Scientific Enzyclean IV Multiple Enzyme Detergent 128EMEHC 	
1.2. Recommended use and restrictions on Recommended use	use : Detergent	
1.3. Supplier		
Manufacturer Micro-Scientific, LLC 755 Tri-State Parkway Gurnee, IL 60031 T 1-888-253-2536	Distributor Canadian Hospital Specialties Ltd. 2810 Coventry Road Oakville, ON L6H 6R1 Canada T 1-888-752-3920	
1.4. Emergency telephone number		
Emergency number	: 1-800-535-5053; International: 1-352-323-3500	
SECTION 2: Hazard identification		
2.1. Classification of the substance or mixtu	re	
Classification (GHS CA) Resp. Sens. 1 H334		
2.2. GHS Label elements, including precaut	ionary statements	
GHS-CA labelling		
Hazard pictograms (GHS-CA)		
Signal word (GHS CA)	Danger	
Hazard statements (GHS-CA)	H334 - May cause allergy or asthma symptoms or breathing difficu	lties if inhaled.
Precautionary statements (GHS-CA)	P261 - Avoid breathing mist/vapours/spray. P284 - In case of inadequate ventilation, wear respiratory protectio P304+P340 - IF INHALED: If breathing is difficult, remove person comfortable for breathing. P342+P311 - If experiencing respiratory POISON CENTER or doctor. P501 - Dispose of contents/containe waste collection point, in accordance with local, regional, national regulation	to fresh air and keep / symptoms: Call a r to hazardous or special
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS CA)		
Not applicable		
SECTION 3: Composition/information c	n ingredients	
3.1. Substances		
Not applicable		
Not applicable		
Not applicable 3.2. Mixtures		

Name	Product identifier	%
Subtilisins (proteolytic enzymes)	(CAS-No.) 9014-01-1	0.1-1
Lipase, triacylglycerol	(CAS-No.) 9001-62-1	0.1-1
Amylase, .alpha	(CAS-No.) 9000-90-2	0.1-1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	: IF INHALED: Remove person to fresh respiratory symptoms: Call a POISON	air and keep comfortable for breathing. If experiencing N CENTER/doctor.	
First-aid measures after skin contact	: If skin irritation occurs: Wash skin with persists.	n plenty of water. Obtain medical attention if irritation	
First-aid measures after eye contact		ter for several minutes. Remove contact lenses, if present ye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Do not induce vomiting without medic unconscious person. Get medical adv	al advice. Never give anything by mouth to an vice/attention if you feel unwell.	
4.2. Most important symptoms and effects	(acute and delayed)		
Symptoms/effects after inhalation	: May cause irritation to the respiratory breathing difficulties if inhaled.	tract. May cause allergy or asthma symptoms or	
Symptoms/effects after skin contact	: May cause skin irritation. Repeated ex	posure may cause skin dryness or cracking.	
Symptoms/effects after eye contact	production, with possible redness and	0	
Symptoms/effects after ingestion	: May be harmful if swallowed. May cau diarrhea.	use gastrointestinal irritation, nausea, vomiting and	
4.3. Immediate medical attention and spec	al treatment, if necessary		
Other medical advice or treatment	: Symptoms may be delayed. In case o immediately (show the label where po	f accident or if you feel unwell, seek medical advice ssible).	
SECTION 5: Fire-fighting measures			
5.1. Suitable extinguishing media			
Suitable extinguishing media	: Use extinguishing media appropriate f	for surrounding fire.	
5.2. Unsuitable extinguishing media	. Nana luanum		
Unsuitable extinguishing media	: None known.		
5.3. Specific hazards arising from the haza			
Fire hazard	: Products of combustion may include,	and are not limited to: oxides of carbon.	
5.4. Special protective equipment and precautions for fire-fighters			
Protection during firefighting	: Keep upwind of fire. Wear full fire fight protection (SCBA).	ting turn-out gear (full Bunker gear) and respiratory	
SECTION 6: Accidental release measu	res		
6.1. Personal precautions, protective equip			
General measures	: Use personal protection recommende unnecessary and unprotected personn	d in Section 8. Isolate the hazard area and deny entry to nel.	
6.2. Methods and materials for containment	t and cleaning up		
For containment		naterial (sand, vermiculite or other appropriate material), ot flush into surface water or sewer system. Wear uipment.	
Methods for cleaning up		e container for disposal. Provide ventilation.	
6.3. Reference to other sections			
For further information refer to section 8: "Exposure	controls/personal protection"		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling		bid breathing dust/fume/gas/mist/vapours/spray. Do not with care. Use only outdoors or in a well-ventilated area. e. Provide adequate ventilation	
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep out of the reach of children. Kee	p container tightly closed. Store in a well-ventilated place.	
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Subtilisins (proteolytic enzymes) (9014-01-1)		-	
USA - ACGIH ACGIH Ceiling	(mg/m³)	0.00006 mg/m ³ (Subtilisins)	

USA - ACGIH

ACGIH 2017

Regulatory reference

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

8.2.	Appropriate engineering controls	
Appro	priate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Enviro	onmental exposure controls	: Avoid release to the environment.
8.3.	Individual protection measures/Pers	onal protective equipment

Hand protection:

Wear chemically resistant protective gloves.

Eye protection:

Safety glasses or goggles are recommended when using product.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear respiratory protection.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Blue liquid.
Colour	: Blue
Odour	: Fresh
Odour threshold	: No data available
рН	: 8.5 - 9
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not Flammable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: 1.11
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Incompatible materials
Incompatible materials	: Strong acids, Strong bases
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon.

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

according to the Hazardous Products Regulation (February 11, 2015)			
SECTION 11: Toxicological informat	ion		
11.1. Information on toxicological effects			
Acute toxicity (oral)	: Not classified.		
Acute toxicity (dermal)	: Not classified.		
Acute toxicity (inhalation)	: Not classified.		
Amylase, .alpha (9000-90-2)			
LD50 oral rat LC50 inhalation rat	> 7500 mg/kg		
	> 4.96 mg/l/4h		
Subtilisins (proteolytic enzymes) (9014-01			
LD50 oral rat	3700 mg/kg		
LD50 oral	370 mg/kg		
ATE CA (oral)	370 mg/kg bodyweight		
Skin corrosion/irritation	: Not classified.		
Corious ave domogo/irritation	pH: 8.5 - 9		
Serious eye damage/irritation	: Not classified.		
Despiratory or alvin consistention	pH: 8.5 - 9		
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. : Not classified.		
Germ cell mutagenicity	: Not classified.		
Carcinogenicity			
Reproductive toxicity	: Not classified.		
STOT-single exposure	: Not classified.		
STOT-repeated exposure	: Not classified.		
Aspiration hazard	: Not classified.		
Symptoms/effects after inhalation	 May cause irritation to the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled. 		
Symptoms/effects after skin contact	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.		
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.		
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.		
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.		
SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	: May cause long-term adverse effects in the aquatic environment.		
Subtilisins (proteolytic enzymes) (9014-01	-1)		
LC50 fish 1	200 mg/l		
12.2. Persistence and degradability			
Micro-Scientific Enzyclean IV Multiple Enzyme Detergent			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			

1	12.3. Bioaccumulative potential				
	Micro-Scientific Enzyclean IV Multiple Enzyme Detergent				
	Bioaccumulative potential	Not established.			
1	12.4. Mobility in soil				
No additional information available					
1	2.5. Other adverse effects				
	Ozone :	Not classified.			
Other information		No other effects known.			

SECTIO	ON 13: Disposal considerations		
13.1.	Disposal methods		
Product	/Packaging disposal recommendations	:	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 14: Transport information
14.1. Basic shipping description
In accordance with TDG
Transportation of Dangerous Goods
Not regulated for transport
14.2. Transport information/DOT
No additional information available
14.3. Air and sea transport
No additional information available
SECTION 15: Regulatory information
15.1. National regulations
All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.
15.2. International regulations
No additional information available
SECTION 16: Other information

Date of issue	: 07-19-2019
Revision date	: 12-01-2021
Other information	: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.