MIDA MEMCARE ENZY

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Date first issue: 23/11/2017 Review date: 16/03/2021 Supersedes version of: 23/11/2017 Version: 3.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : MIDA MEMCARE ENZY
Product code : MME
Type of product : Detergent
Product group : CFH Product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : Industrial use
Use of the substance/mixture : Detergent

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns Food Hygiene Ltd.
2, Cameron Court, Winwick Quay
WA2 8RE Warrington - United Kingdom
T +44(0)1925 234696 - F +44(0)1925 234693
UK-foodinfo@christeyns.com - www.christeyns.com

Distributor

Casoria Company Ltd.
1 Farnham Street
H12 A9K0 Cavan - Ireland
T 00353 49 4361869 - F 00353 49 436 1869
sds@casoria.ie - www.casoria.ie

1.4. Emergency telephone number

Emergency number : 01925 234696 (9:00 - 17:00 GMT)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1	H318
Aquatic Chronic 3	H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05

CLP Signal word : Danger
Contains : Amines, C12-14 (Even numbered) Alkyldimethylamine,-N-Oxides
Hazard statements (CLP) : H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 - Get medical advice/attention.

EUH-statements : EUH208 - Contains Protease. May produce an allergic reaction.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propane-1,2-diol substance with national workplace exposure limit(s) (GB)	(CAS-no) 57-55-6 (Einecs nr) 200-338-0	10 – 30	Not classified
Amines, C12-14 (Even numbered) Alkyldimethylamine,-N-Oxides	(CAS-no) 308062-28-4 (EG annex nr) 931-292-6 (REACH-no) 01-2119490061-47-0000	3 – 5	Acute Tox. 4 (Oral), H302 (ATE=1064 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Protease substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-no) 9014-01-1 (Einecs nr) 232-752-2 (EG annex nr) 647-012-00-8 (REACH-no) 01-2119480434-38	0.1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain emergency medical attention.

Ingestion : Do NOT induce vomiting. Rinse mouth out with water. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Acute effects eyes : Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Prompt treatment is essential to minimize damage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear recommended personal protective equipment.

6.1.1. For non-emergency personnel

Protective equipment : Avoid any direct contact with the product. Use personal protective equipment as required.

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation. Wash contaminated area with large amounts of water.

6.4. 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 : Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not mix with other products.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place. Avoid high temperatures.

Incompatible products : Strong acids. Strong bases.

7.3. Specific end use(s)

Detergent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Propane-1,2-diol (57-55-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Propane-1,2-diol
WEL TWA (OEL TWA) [1]	10 mg/m³ particulates 474 mg/m³ total vapour and particulates
WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates

Protease (9014-01-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	0.00004 mg/m³
United Kingdom - Occupational Exposure Limits	
Local name	Subtilisins (Bacillus subtilis Carlsberg)
WEL STEL (OEL STEL)	0.00012 mg/m³
Remark (WEL)	Sen (Capable of causing occupational asthma. See paragraphs 53–56)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good ventilation of the workplace required.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:
Goggles. Use eye protection according to EN 166, designed to protect against liquid splashes. If there is a risk of liquid being splashed : Wear suitable face shield

8.2.2.2. Skin protection

Protective equipment:
Wear suitable protective clothing. PVC apron covering the tops of the boots. Boots made of PVC

Hand protection:
Wear suitable gloves resistant to chemical penetration. Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:
Not required for normal conditions of use

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale yellow.
Physical state/form	: Clear Liquid. Foaming product.
Odour	: Slight.
Odour threshold	: Not available
Melting point/range	: Not available
Freezing point	: Not available
Boiling point/Boiling range	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7.1 – 7.8
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.05
Relative density	: Not available

Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

None under normal use.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Amines, C12-14 (Even numbered) Alkyldimethylamine,-N-Oxides (308062-28-4)	
LD50 oral rat	1064 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	1064 mg/kg bodyweight

Propane-1,2-diol (57-55-6)	
LD50 oral rat	22000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 317 mg/l
ATE CLP (oral)	22000 mg/kg bodyweight

Protease (9014-01-1)	
LD50 oral rat	> 1800 mg/kg bodyweight
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Not classified pH: 7.1 – 7.8
Serious eye damage/irritation	: Causes serious eye damage. pH: 7.1 – 7.8
Respiratory or skin sensitisation	: Not classified

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

Protease (9014-01-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

11.2. Information on other hazards
No additional information available

SECTION 12: Ecological information
12.1. Toxicity
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Amines, C12-14 (Even numbered) Alkyldimethylamine,-N-Oxides (308062-28-4)	
LC50 - Fish [1]	2.67 – 3.46 mg/l
EC50 - Crustacea [1]	3.1 mg/l
ErC50 algae	0.14 mg/l 72H

Propane-1,2-diol (57-55-6)	
LC50 - Fish [1]	40613 mg/l
EC50 - Crustacea [1]	43500 mg/l
ErC50 algae	19000 mg/l
ErC50 other aquatic plants	19100 mg/l
NOEC (acute)	20000 mg/l

Protease (9014-01-1)	
LC50 - Fish [1]	8.2 mg/l
EC50 - Crustacea [1]	586 µg/l
EC50 72h - Algae [1]	0.83 mg/l
ErC50 algae	> 100 mg/l

12.2. Persistence and degradability
Propane-1,2-diol (57-55-6)	
Biodegradation	81.7 %

12.3. Bioaccumulative potential
Propane-1,2-diol (57-55-6)	
Bioconcentration factor (BCF REACH)	0.09

Protease (9014-01-1)	
Log Pow	< 0

12.4. Mobility in soil

Propane-1,2-diol (57-55-6)	
Surface tension	71.6 mN/m

12.5. Results of PBT and vPvB assessment

MIDA MEMCARE ENZY	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

12.6. Endocrine disrupting properties
No additional information available

12.7. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information
In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number or ID number	
Not regulated	Not regulated
14.2. UN proper shipping name	
Not regulated	Not regulated
14.3. Transport hazard class(es)	
Not regulated	Not regulated
14.4. Packing group	
Not regulated	Not regulated
14.5. Environmental hazards	
Not regulated	Not regulated
No supplementary information available	

14.6. Special precautions for user
Overland transport

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Detergent Regulation (648/2004/EC): Labelling of contents:	
Component	**%**
amphoteric surfactants	<5%
subtilisin	

Lipase	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Protease. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.