

1.1. Product identifier

MIDA MEMCARE 518

Safety Data Sheet

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

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 30/01/2020 Review date: 24/06/2021 Supersedes version of: 24/06/2021 Version: 7.0

Product form : Mixture : MIDA MEMCARE 518 Product name : IT00012 Product code Type of product : Detergent Product group : Trade 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, Professional use : Enzymatic additive for membrane filtration Use of the substance/mixture 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet Manufacturer Distributor Christeyns Italia S.r.l. - Divisione Food Hygiene Casoria Company Ltd. Ltd Via Aldo Moro 30 1 Farnham Street IT- 20060 PESSANO CON BORNAGO (MI) IE- H12 A9K0 Cavan - Co. Cavan Italy Ireland T +39 (02) 99765220 - F +39 (02) 99765249 T 00353 49 4361869 - F 00353 49 436 1869 info.fhitalia@christeyns.com - www.christeyns.com sds@casoria.ie - www.casoria.ie Distributor Distributor Christeyns UK Ltd. Christeyns Technologies Ltd. Rutland Street Mazars, Block 3, Harcout Centre, Harcourt Road GB- Bradford BD4 7EA IE-2 Dublin United Kingdom Ireland T +44 (0)1274 39 32 86 - F +44 (0)1274 30 91 43 info@christeyns.be - www.christeyns.com T Tel: +353 1 8146022 Manufacturer Christeyns Food Hygiene Ltd. Ltd 2, Cameron Court, Winwick Quay

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

H318

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

GB- WA2 8RE Warrington - Cheshire

T +44(0)1925 234696 - F +44(0)1925 234693 <u>UK-foodinfo@christeyns.com</u> - <u>www.christeyns.com</u>

United Kingdom

Classification according to Regulation (EC) No. 1272/2008 [CLP] Eye Dam. 1

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

Adverse physicochemical, human health and environmental effects Causes serious eye damage.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements

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

Hazard pictograms (CLP)



2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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]
Glycerol substance with national workplace exposure limit(s) (IE, GB)	CAS-no: 56-81-5 Einecs nr: 200-289-5 REACH-no: 01-2119471987- 18	30 – 60	Not classified
Subtilisin substance with national workplace exposure limit(s) (IE, GB)	Einecs nr: 232-752-2 REACH-no: 01-2119480434- 38	0.1 – 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-no: 55965-84-9 Einecs nr: 611-341-5 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	< 0.1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Specific concentration limits:

•			
Name	Product identifier	Specific concentration limits	
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-no: 55965-84-9 Einecs nr: 611-341-5 EG annex nr: 613-167-00-5 REACH-no: 01-2120764691- 48	(0.0015 ≤C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤C < 0.6) Eye Irrit. 2, H319 (0.06 ≤C < 0.6) Skin Irrit. 2, H315 (0.6 ≤C ≤ 100) Eye Dam. 1, H318 (0.6 ≤C ≤ 100) Skin Corr. 1C, H314	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

: In all cases of doubt, or when symptoms persist, seek medical attention.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

	nded by Regulation (EU) 2020/878
Inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Consult a doctor/medical service if you feel unwell. Wash skin with plenty of water.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	: Rinse mouth out with water. Call a physician immediately.
4.2. Most important symptoms and effects, Acute effects skin	, both acute and delayed : May cause an allergic skin reaction.
Acute effects eyes	: Serious damage to eyes.
4.3. Indication of any immediate medical at Treat symptomatically.	
SECTION 5: Firefighting measures 5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the subst	tance or mixture
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complet protective clothing.
SECTION 6: Accidental release measu 6.1. Personal precautions, protective equip	
6.1.1. For non-emergency personnel	
Protective equipment	: Concerning personal protective equipment to use, see section 8.
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel.
6.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for containment Methods for cleaning up	 and cleaning up Take up liquid spill into absorbent material. Shovel or sweep up and put in a closed container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections For further information refer to section 13.	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Never mix with other materials. Never return unused material to original container. Avoid contact with skin and eyes. Wear personal protective equipment.
	. Do not not drink or omely when using this product. Always wash hands after handling the
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
7.2. Conditions for safe storage, including Storage conditions	product. any incompatibilities : Keep only in original container. Keep container tightly closed in a cool place.
Hygiene measures 7.2. Conditions for safe storage, including Storage conditions Material(s) to avoid 7.3. Specific end use(s)	any incompatibilities

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Subtilisin	Subtilisin		
Ireland - Occupational Exposure Limits	reland - Occupational Exposure Limits		
Local name	Subtilisins (proteolytic enzymes as 100% pure cystalline enzyme)		
OEL TWA [1]	0.00006 mg/m ³		
OEL STEL	0.00006 mg/m ³		
Regulatory reference	Chemical Agents Code of Practice 2020		
United Kingdom - Occupational Exposure Limits			
Local name	Subtilisins (Bacillus subtilis Carlsberg)		
WEL TWA (OEL TWA) [1]	0.00004 mg/m ³		
Remark	Sen (Capable of causing occupational asthma. See paragraphs 53–56)		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
Glycerol (56-81-5)			
Ireland - Occupational Exposure Limits			
Local name	Glycerol, mist		
OEL TWA [1]	10 mg/m ³		
United Kingdom - Occupational Exposure Limits			
Local name	Glycerol		
WEL TWA (OEL TWA) [1]	10 mg/m³ mist		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		

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:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Wear security glasses which protect from splashes . Safety glasses

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing

Hand protection:

Although not necessary, it is advisable to wear chemical protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state Liquid	
Colour	: Light yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: Not applicable
Freezing point	: Not available
Boiling point/Boiling range	: Not available
Flammability	: Not applicable
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
рН	: 6.5 ± 0,5 (100%)
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	: 1.091 ± 0,01 g/ml
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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Never mix with other materials.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

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

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)

LD50 oral rat	64 mg/kg
LD50 dermal rat	87.12 mg/kg
LD50 dermal rabbit	78 mg/kg
LC50 Inhalation - Rat	0.33 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	0.33 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 6.5 ± 0,5 (100%)
Serious eye damage/irritation	: Causes serious eye damage. pH: 6.5 ± 0,5 (100%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Subtilisin	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified

Aspiration hazard

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Mixture of: 5-chloro-2-methyl-4-isothiazolin 6] (3:1) (55965-84-9)	3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-

: Not classified

LC50 - Fish [1]	0.19 mg/l Rainbow trout
LC50 - Fish [2]	zonnebaars
EC50 - Crustacea [1]	0.16 mg/l

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Mixture of: 5-chloro-2-methyl-4-isothiazolin 6] (3:1) (55965-84-9)	-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-
EC50 - Other aquatic organisms [1]	0.126 mg/l waterflea
EC50 - Other aquatic organisms [2]	0.003 mg/l
EC50 72h - Algae [1]	0.027 mg/l
ErC50 algae	0.003 mg/l Skeletonema costatum
ErC50 other aquatic plants	0.018 mg/l selenastrum capricornutum
NOEC chronic fish	0.05 mg/l
NOEC chronic crustacea	0.1 mg/l
NOEC chronic algae	0.0014 mg/l
12.2. Persistence and degradability	
6] (3:1) (55965-84-9) Persistence and degradability	-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239- t1/2 anaëroob = 0,2d. t 1/2 aëroob = 0,38 - 1,3d. 2-methyl-2H-isothiazool-3-on: t1/2 aëroob = 0,38 - 1,4d.
12.3. Bioaccumulative potential	aerood - 0,30 - 1,40.
•	-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-
Log Pow	0.4
 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 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 Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

- Waste / unused products
- : Collect all waste in suitable and labelled containers and dispose according to local
- SECTION 14: Transport information In accordance with ADR / IMDG / IATA

ADR	IMDG	ΙΑΤΑ	
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping	g name		
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard c	lass(es)		
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental haz	ards		
Not applicable	Not applicable	Not applicable	
No supplementary information	n available		
14.6. Special precautions	for user		
Overland transport			
Not applicable			

legislation.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Transport by sea

Not applicable

Air transport

Not applicable

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Detergent Regulation (648/2004/EC): Labelling of contents:		
Component	%	
Amylase, alpha		
LIPASE		
SUBTILISIN		
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE		

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

Indication of changes

Section	Changed item	Change	Comments	
	Supersedes	Modified		
	Review date	Modified		
3	Composition/information on ingredients	Modified		
4.2	Acute effects eyes	Modified		
5.1	Suitable extinguishing media	Modified		
5.3	Protection during firefighting	Modified		
6.3	Methods for cleaning up	Modified		
7.2	Storage conditions	Modified		
8.2	Eye protection	Modified		
9.1	рН	Modified		
9.1	Density	Modified		

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations a	nd acronyms:
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
EUH208	Contains Subtilisin, Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol- 3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and	I EUH-statements:
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Dam. 1	H318	Annex VII conversion

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.