

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

1.1. Product identifier

Product form : Mixture
Product name : Mida Lufragerm+
Product code : 795
Type of product : Detergent

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
Use of the substance/mixture : Biocide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns NV
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9000 GENT - Belgium
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info@christeyns.be - www.christeyns.com

Distributor

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Bradford BD4 7EA - United Kingdom
T +44 (0)1274 39 32 86 - F +44 (0)1274 30 91 43
info@christeyns.be - www.christeyns.com

Distributor

Christeyns Technologies Ltd.
Mazars, Block 3, Harcourt Centre, Harcourt Road
2 Dublin - Ireland
T Tel: +353 1 8146022

Distributor

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

1.4. Emergency telephone number

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 Acute 1 H400
Aquatic Chronic 3 H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

GHS09

CLP Signal word

: Danger

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Hazardous ingredients	: Didecyldimethyl ammoniumchloride
Hazard statements (CLP)	: H318 - Causes serious eye damage. H400 - Very toxic to aquatic life. 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. P310 - Immediately call a POISON CENTER/doctor. P391 - Collect spillage. P501 - Dispose of contents, container to a hazardous or special waste collection point.

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]
Didecyldimethyl ammoniumchloride	(CAS-no) 7173-51-5 (Einecs nr) 230-525-2 (EG annex nr) 612-131-00-6 (REACH-no) 01-2119945987-15	3 – 5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Fatty alcohol ethoxylate	(CAS-no) 160875-66-1 (Einecs nr) 605-233-7 (EG annex nr) /	3 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Ethoxylated Alcohol	(CAS-no) 157627-86-6/68439-50-9/68131-39-5/68213-23-0/68551-12-2/160901-19-9 (Einecs nr) 500-337-8/500-213-3/500-195-7/500-201-8 /500-221-7/500-457-0 (REACH-no) Exempted (polymer)	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1,2-ethanediol	(CAS-no) 107-21-1 (Einecs nr) 203-473-3 (EG annex nr) 603-027-00-1 (REACH-no) 01-2119456816-28	1 – 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Sodium carbonate	(CAS-no) 497-19-8 (Einecs nr) 207-838-8 (EG annex nr) 011-005-00-2 (REACH-no) 01-2119485498-19	1 – 3	Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: In case of doubt or persistent symptoms, consult always a physician. For symptom description, see item 11.
Inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
Skin contact	: Wash off with plenty of water. In case of faintness or symptoms of skin irritation appear, take medical advice.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	: Rinse mouth out with water. Do not induce vomiting. Immediately consult a doctor/medical service.

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

Acute effects inhalation	: Presents no particular risk when handled in accordance with good occupational hygiene practice.
Acute effects skin	: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.
Acute effects eyes	: Causes serious eye damage.
Acute effects oral route	: Presents no particular risk when handled in accordance with good occupational hygiene practice.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

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

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Stop leak without risks if possible.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spilled material with sand or earth. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Never mix with other materials. Never return unused material to original container.

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 original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage temperature

: 5 – 25 °C

Material(s) to avoid

: None known.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1,2-ethanediol (107-21-1)

EU - Occupational Exposure Limits

Local name	Ethylene glycol
IOELV TWA (mg/m ³)	52 mg/m ³
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m ³)	104 mg/m ³
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Ireland - Occupational Exposure Limits

OEL (8 hours ref) (mg/m ³)	52 mg/m ³
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United Kingdom - Occupational Exposure Limits

Local name	Ethane-1,2-diol
WEL TWA (mg/m ³)	10 mg/m ³ particulate 52 mg/m ³ vapour
WEL TWA (ppm)	20 ppm vapour

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WEL STEL (mg/m ³)	104 mg/m ³ vapour
WEL STEL (OEL STEL) [ppm]	40 ppm vapour
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

Eye protection:

Safety glasses with side-shields (EN 166)

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

Respiratory protection:

Not necessary with sufficient ventilation

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Physical state/form	: Liquid.
Colour	: Yellow.
Odour	: characteristic odour.
Odour threshold	: No data available
pH	: 12.4 ± 0,5 (100%); 10,9 ± 0,5 (1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/range	: < 0 °C
Freezing point	: No data available
Boiling point/Boiling range	: /
Flash point	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.022 kg/l
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No decomposition if stored normally.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

No additional information available

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 toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Didecyldimethyl ammoniumchloride (7173-51-5)

LD50 oral rat	238 mg/kg
LD50 dermal rabbit	3342 mg/kg
ATE CLP (oral)	238 mg/kg bodyweight
ATE CLP (dermal)	3342 mg/kg bodyweight

1,2-ethanediol (107-21-1)

ATE CLP (oral)	500 mg/kg bodyweight
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Ethoxylated Alcohol (157627-86-6/68439-50-9/68131-39-5/68213-23-0/68551-12-2/160901-19-9)

LD50 oral rat	300 – 2000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
ATE CLP (oral)	300 mg/kg bodyweight

Fatty alcohol ethoxylate (160875-66-1)

LD50 oral rat	> 300 (300 – 2000) mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	300 mg/kg bodyweight

Skin corrosion/irritation	: Not classified pH: 12.4 ± 0,5 (100%); 10,9 ± 0,5 (1%)
Serious eye damage/irritation	: Causes serious eye damage. pH: 12.4 ± 0,5 (100%); 10,9 ± 0,5 (1%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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Didecyldimethyl ammoniumchloride (7173-51-5)	
LC50 fish 1	0.19 mg/l (Pimephales promelas)
EC50 Daphnia 1	0.062 mg/l
ErC50 (algae)	0.026 mg/l (Pseudokirchneriella subcapitata)
NOEC chronic fish	0.032 mg/l
NOEC chronic crustacea	0.014 mg/l (Daphnia magna)

1,2-ethanediol (107-21-1)	
LC50 fish 1	18500 mg/l
LC50 fish 2	> 10000 mg/l (Pimephales promelas)
EC50 Daphnia 1	46300 mg/l
EC50 other aquatic organisms 1	> 100 mg/l waterflea
EC50 other aquatic organisms 2	6500 mg/l
ErC50 (algae)	6500 – 13000 mg/l (Pseudokirchneriella subcapitata)
NOEC chronic fish	15380 mg/l (Pimephales promelas)
NOEC chronic crustacea	8590 mg/l (Daphnia)
NOEC chronic algae	> 10000 mg/l (Desmodesmus subspicatus)

Ethoxylated Alcohol (157627-86-6/68439-50-9/68131-39-5/68213-23-0/68551-12-2/160901-19-9)	
LC50 fish 1	1 – 10 mg/l
EC50 Daphnia 1	1 – 10 mg/l
ErC50 (other aquatic plants)	1 – 10 mg/l

Fatty alcohol ethoxylate (160875-66-1)	
EC50 Daphnia 1	> 10 mg/l
ErC50 (algae)	> 10 mg/l
NOEC chronic fish	> 1 mg/l

12.2. Persistence and degradability

Didecyldimethyl ammoniumchloride (7173-51-5)	
Persistence and degradability	Readily biodegradable. (OECD 301B method).

1,2-ethanediol (107-21-1)	
Persistence and degradability	Readily biodegradable. (OECD 302B method).

Ethoxylated Alcohol (157627-86-6/68439-50-9/68131-39-5/68213-23-0/68551-12-2/160901-19-9)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
Biodegradation	≥ 90 % (mod. OECD 303A)

Fatty alcohol ethoxylate (160875-66-1)	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential	No bioaccumulation.

1,2-ethanediol (107-21-1)	
BCF fish 1	10 (Leuciscus idus)
Bioconcentration factor (BCF REACH)	10 (Leuciscus idus)

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Bioaccumulative potential	No bioaccumulation.
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Fatty alcohol ethoxylate (160875-66-1)

Bioaccumulative potential	No bioaccumulation.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste / unused products




: Collect all waste in suitable and labelled containers and dispose according to local legislation.

European List of Waste (LoW) code

: 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.
Transport document description		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Didecyldimethyl ammoniumchloride), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Didecyldimethyl ammoniumchloride), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Didecyldimethyl ammoniumchloride), 9, III
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

Overland transport

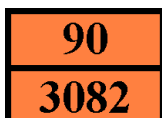
Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1

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Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel code : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03

Air transport

PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

Substances 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: Didecyldimethylammonium chloride (7173-51-5)

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	%
non-ionic surfactants	5-15%
cationic surfactants	<5%
GLUTARAL	
IODOPROPYNYL BUTYLCARBAMATE	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
2		Modified	
3		Modified	
4		Modified	
5		Modified	
6		Modified	
8		Modified	
14		Modified	
15		Modified	
16	Abbreviations and acronyms	Modified	
16	Other information	Modified	

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ErC50 (algae)	ErC50 (algae)
IATA	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
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Other information : It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other products. This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

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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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Eye Dam. 1	H318	
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

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.