

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Review date: 26/04/2022 Supersedes version of: 27/03/2020 Version: 4.0

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

1.1. Product identifier

Product form : Mixture

Product name : Mida San 331 LW

Product code : 729

Type of product : Biocidal products (e.g. Disinfectants, pest control)

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only

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

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#### Distributor

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#### Distributor

Christeyns Technologies Ltd.

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IE- 2 Dublin Ireland

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## 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	Only for healthcare professionals

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

 Flam. Liq. 3
 H226

 Skin Corr. 1C
 H314

 Eye Dam. 1
 H318

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

### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes severe skin burns and eye damage.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05 GHS02

CLP Signal word : Danger Contains : Lactic acid

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 - IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER

or doctor/physician.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

**EUH-statements** : EUH071 - Corrosive to the respiratory tract.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 at a concentration equal to or greater than 0,1 %

## **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]
Lactic acid	CAS-no: 79-33-4 Einecs nr: 201-196-2 REACH-no: 01-2119474164- 39	10 – 30	Skin Corr. 1C, H314 Eye Dam. 1, H318
Isopropanol substance with national workplace exposure limit(s) (GB)	CAS-no: 67-63-0 Einecs nr: 200-661-7 EG annex nr: 603-117-00-0 REACH-no: 01-2119457558- 25	10 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Lactic acid	CAS-no: 79-33-4 Einecs nr: 201-196-2 REACH-no: 01-2119474164- 39	( 1 ≤C < 3) Eye Irrit. 2, H319 ( 3 ≤C ≤ 100) Eye Dam. 1, H318 ( 5 ≤C ≤ 100) Skin Corr. 1C, H314 ( 10 <c 100)="" euh071<="" td="" ≤=""></c>

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

## **SECTION 4: First aid measures** 4.1. Description of first aid measures

General advice

Inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to

breathe fresh air.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Rinse skin with water/shower. Take off immediately all

: Call a physician immediately.

contaminated clothing. Call a physician immediately.

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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. Call a physician

immediately.

Ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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 : Red skin. Burns.

Acute effects eyes : Redness. Eye irritation. Serious damage to eyes.

Acute effects oral route : Presents no particular risk when handled in accordance with good occupational hygiene

practice. Burns.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used. Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May form flammable/explosive vapour-air mixture. Flammable. Flammable liquid and

vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : No naked flames, sparks, and do not smoke.

Firefighting instructions : Water spray or fog. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with

skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

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

refer to section 8: "Exposure controls/personal protection".

## 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Shovel or sweep up and put in a closed

container for disposal. Notify authorities if product enters sewers or public waters.

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

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are

usually required.

Precautions for safe handling : Ensure good ventilation of the work station. No naked flames, sparks, and do not smoke.

Store and handle as though always a potential fire and health hazard exists. May form flammable/explosive vapour-air mixture. Proper grounding procedures to avoid static electricity should be followed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal

protective equipment. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before breaks and after

work. Wash contaminated clothing before reuse. Always wash hands after handling the

product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

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Storage conditions

: Keep in fireproof place. Only store product in original container. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep

container tightly closed. Store locked up.

: Store away from direct sunlight or other heat sources.

Storage area

**7.3. Specific end use(s)**No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Isopropanol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (OEL TWA) [1]	999 mg/m³
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
WEL STEL (OEL STEL) [ppm]	500 ppm
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 symbol(s):



## 8.2.2.1. Eye and face protection

## Eye protection:

Safety glasses with side-shields (EN 166). Safety glasses

## 8.2.2.2. Skin protection

## Protective equipment:

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

#### Hand protection:

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

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

No personal breathing protective equipment is normally required. Ensure good ventilation

#### 8.2.2.4. Thermal hazards

No additional information available

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## 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 : Colourless.
Physical state/form : Liquid.
Odour : Characteristic.

Odour threshold : Not available Melting point/range : Not applicable Freezing point : Not available Boiling point/Boiling range : Not available : Not applicable Flammability Explosive limits : Not available Lower explosion limit : Not available Upper explosion limit : Not available Flash point : 33 °C Autoignition temperature : Not available Decomposition temperature : Not available  $3 \pm 0.5 (100\%)$ pΗ Viscosity, kinematic : 40 - 60 mm<sup>2</sup>/s Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available

Relative density :  $1070 \pm 25 \text{ kg/m3} (20^{\circ}\text{C})$ 

: Not available

Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

## 9.2. Other information

Density

## 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

Flammable liquid and vapour.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

May form flammable and explosive vapour-air mixture.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 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

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Isopropanol (67-63-0)		
LD50 oral rat	5840 mg/kg bodyweight (OECD Guideline 401)	
Lactic acid (79-33-4)		
LD50 oral	3730 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Guideline: EPA OPP 81-2 (Acute Dermal Toxicity)	
LD50 dermal	> 2000 mg/kg bodyweight	
LC50 Inhalation - Rat	> 7.94 mg/l air (OECD 403 method)	
LC50 Inhalation - Rat (Dust/Mist)	> 7940 mg/m³	
Skin corrosion/irritation	: Causes severe skin burns. pH: 3 ± 0.5 (100%)	
Serious eye damage/irritation	: Causes serious eye damage. pH: 3 ± 0.5 (100%)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Isopropanol (67-63-0)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
Isopropanol (67-63-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Mida San 331 LW		
Viscosity, kinematic	40 – 60 mm²/s	

## 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Lactic acid (79-33-4)	
LC50 - Fish [1]	195 mg/l
EC50 - Crustacea [1]	130 mg/l Daphnia magna (Water flea)
EC50 - Other aquatic organisms [1]	130 mg/l EC50 waterflea (48 h)
EC50 - Other aquatic organisms [2]	> 2800 mg/l IC50 algea (72 h) mg/l

## 12.2. Persistence and degradability

Mida San 331 LW	
Persistence and degradability	When added in small quantities, there are no expected effects on the working of the biological water cleaning station.

## 12.3. Bioaccumulative potential

Lactic acid (79-33-4)	
Log Pow	-0.62

#### 12.4. Mobility in soil

No additional information available

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#### 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

Product/Packaging disposal recommendations Additional information

Waste / unused products

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: a hazardous or special waste collection point.

: Flammable vapours may accumulate in the container.

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

### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID number				
UN 2924	UN 2924	UN 2924		
14.2. UN proper shipping name				
FLAMMABLE LIQUID, CORROSIVE, N.O.S.	FLAMMABLE LIQUID, CORROSIVE, N.O.S.	Flammable liquid, corrosive, n.o.s.		
Transport document description				
UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Lactic acid), 3 (8), III, (D/E)	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Isopropanol; Lactic acid), 3 (8), III	UN 2924 Flammable liquid, corrosive, n.o.s. (Isopropanol; Lactic acid), 3 (8), III		
14.3. Transport hazard class(es)				
3 (8)	3 (8)	3 (8)		
8	3 8	3		
14.4. Packing group				
III	III	III		
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No		
No supplementary information available				

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : FC Special provisions (ADR) : 274 Limited quantities (ADR) : 51

Packing instructions (ADR) : P001, IBC03, R001

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T7 (ADR)

Portable tank and bulk container special provisions

(ADR)

: TP1, TP28

Tank code (ADR) : L4BN Vehicle for tank carriage : FL Transport category (ADR) : 3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Operation (ADR) : S2

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Hazard identification number (Kemler No.) : 38

Orange plates

38 2924

 Tunnel code
 : D/E

 EAC code
 : •3WE

 APP code
 : A(fl)

#### Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC03

#### Air transport

PCA Limited quantities (IATA) : Y342
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 354
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 365
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803

#### 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) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

## 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
2.2	EUH-statements	Added	

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

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Abbreviations and	d acronyms:
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 responsable for any damage and loss due to the use of information mentioned in this safety data sheet.

Full text of H- and EUH-statements:			
EUH071	Corrosive to the respiratory tract.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H314	Causes severe skin burns and eye damage.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]				
Flam. Liq. 3	H226	On basis of test data		
Skin Corr. 1C	H314	Calculation method		

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CL			
Eye Dam. 1 H318 Calculation method			

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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.