

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Review date: 22/02/2021 Supersedes version of: 06/03/2019 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 FLOW 210 FL

Product code : 721
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 : Acidic CIP detergent

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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Manufacturer

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Distributor

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T 00353 49 4361869 - F 00353 49 436 1869

sds@casoria.ie - www.casoria.ie

Distributor

Christeyns Technologies Ltd.

Mazars, Block 3, Harcout Centre, Harcourt Road

2 Dublin - Ireland

T Tel: +353 1 8146022

1.4. Emergency telephone number

The 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]

 Met. Corr. 1
 H290

 Acute Tox. 4 (Inhalation:vapour)
 H332

 Skin Corr. 1A
 H314

 Eye Dam. 1
 H318

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05 GHS07

CLP Signal word : Danger

Contains : Phosphoric acid; Nitric acid Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H332 - Harmful if inhaled.

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. 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 or doctor.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

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.

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

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

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]
Nitric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-no) 7697-37-2 (Einecs nr) 231-714-2 (EG annex nr) 007-004-00-1 (REACH-no) 01-2119487297-23	15-26	Ox. Liq. 2, H272 Met. Corr. 1, H290 Acute Tox. 3 (Inhalation:vapour), H331 (ATE=2.65 mg/l/4h) Skin Corr. 1A, H314
Phosphoric acid substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	(CAS-no) 7664-38-2 (Einecs nr) 231-633-2 (EG annex nr) 015-011-00-6 (REACH-no) 01-2119485924-24	5 – 10	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Nitric acid	(CAS-no) 7697-37-2 (Einecs nr) 231-714-2 (EG annex nr) 007-004-00-1 (REACH-no) 01-2119487297-23	(5 ≤C < 20) Skin Corr. 1B, H314 (13 <c (inhalation),="" 26)="" 4="" acute="" h332<br="" tox.="" ≤="">(20 ≤C < 100) Skin Corr. 1A, H314 (26 <c (inhalation),="" 100)="" 3="" acute="" h331<br="" tox.="" ≤="">(65 ≤C < 99) Ox. Liq. 3, H272 (99 ≤C < 100) Ox. Liq. 2, H272</c></c>
Phosphoric acid	(CAS-no) 7664-38-2 (Einecs nr) 231-633-2 (EG annex nr) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 ≤C < 25) Skin Irrit. 2, H315 (10 ≤C < 25) Eye Irrit. 2, H319 (25 ≤C < 100) Skin Corr. 1B, 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 case of doubt or persistent symptoms, consult always a physician.

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Inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.

Skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water. Call a physician immediately.

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. Take medical advice immediately.

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

Acute effects inhalation : Harmful if inhaled.

Acute effects skin : Burns.

Acute effects eyes : Corrosive to eyes.

Acute effects oral route : Burns of the upper digestive and respiratory tracts.

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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Corrosive vapours. Nitrogen oxides. Carbon dioxide. Carbon monoxide.

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

General measures : Avoid inhalation of vapours. Ensure adequate ventilation. Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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 : Avoid contact with skin and eyes. 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 : Store tightly closed in a dry and cool place. Keep only in original container. Keep out of

frost.

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

8.1.1 National occupational exposure and biological limit values

Phosphoric acid (7664-38-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Orthophosphoric acid
IOEL TWA	1 mg/m³
IOEL STEL	2 mg/m³
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

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Phosphoric acid (7664-38-2)	
United Kingdom - Occupational Exposure Limits	
Local name Orthophosphoric acid	
WEL TWA (OEL TWA) [1]	1 mg/m³
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Nitric acid (7697-37-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Nitric acid
IOEL STEL	2.6 mg/m³
IOEL STEL [ppm]	1 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Nitric acid
WEL STEL (OEL STEL)	2.6 mg/m³
WEL STEL (OEL STEL) [ppm]	1 ppm

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

Phosphoric acid (7664-38-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	2 mg/m³
Long-term - local effects, inhalation	1 mg/m³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation 0.73 mg/m³	

Nitric acid (7697-37-2)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	2.6 mg/m³	
Long-term - local effects, inhalation	2.6 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	1.3 mg/m³	
Long-term - local effects, inhalation	1.3 mg/m³	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:	
Safety glasses with side-shields (EN 166)	

8.2.2.2. Skin protection

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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:			
Ensure good ventilation			
Device	Filter type	Condition	Standard
			EN 136, EN 140, EN 145, EN 143, EN 149

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 : Colourless. Odour : Irritating. Pungent. Odour threshold : Not available Melting point/range : Not available Freezing point : Not available Boiling point/Boiling range : Not available Flammability : Not available

Explosive properties : Product is not explosive.

Explosive limits : Not available
Lower explosive limit (LEL) : Not available
Upper explosive limit (UEL) : Not available
Flash point : Not applicable.
Autoignition temperature : Not available
Decomposition temperature : Not available

pH : < 1

: Not available Viscosity, kinematic Solubility : Water: Soluble Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : 1.19 kg/l : Not available Relative density 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

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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

No additional information available

10.2. Chemical stability

No decomposition if stored normally.

10.3. Possibility of hazardous reactions

Attacks many metals forming flammable/explosive gas (HYDROGEN!). Exothermic reaction with water.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Never mix with other materials.

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) : Harmful if inhaled.

Mida FLOW 210 FL	
ATE CLP (vapours)	11 mg/l/4h

Phosphoric acid (7664-38-2)	
LD50 oral rat	> 300 mg/kg bodyweight
LD50 dermal	2740 mg/kg bodyweight

Nitric acid (7697-37-2)		
LC50 Inhalation - Rat (Vapours)	2.65 mg/l/4h	

Skin corrosion/irritation : Causes severe skin burns.

pH: < 1

Serious eye damage/irritation : Causes serious eye damage.

pH: < 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

Phosphoric acid (7664-38-2)		
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	

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Nitric acid (7697-37-2)		
NOAEL (oral, rat, 90 days) 1500 mg/kg bodyweight/day		
NOAEC (inhalation, rat, gas, 90 days)	2.15 ppm	

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)

: Not classified

Phosphoric acid (7664-38-2)		
LC50 - Fish [1]	3 – 3.25 mg/l	
EC50 - Crustacea [1]	> 100 mg/l (OESO 202 (ECHA))	
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea	
EC50 - Other aquatic organisms [2]	> 100 mg/l	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
NOEC chronic algae	100 mg/l	

Nitric acid (7697-37-2)		
LC50 - Fish [1] 3.7 mg/l (Oncorhynchus mykiss)		
EC50 - Crustacea [1]	8609 mg/l	
NOEC chronic fish	97.8 mg/l	
NOEC chronic algae	6.75	

12.2. Persistence and degradability

Mida FLOW 210 FL		
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	

Nitric acid (7697-37-2)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Mida FLOW 210 FL	
Bioaccumulative potential	No bioaccumulation.

Phosphoric acid (7664-38-2)	
Log Pow	-0.77

Nitric acid (7697-37-2)		
Bioaccumulative potential	No bioaccumulation.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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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 / 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 / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID n	umber	
UN 3264	UN 3264	UN 3264
14.2. UN proper shippin	g name	
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	Corrosive liquid, acidic, inorganic, n.o.s.
Transport document descr	iption	
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II, (E)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric acid), 8, II	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid), 8, II
14.3. Transport hazard o	class(es)	
8	8	8
8	8	8
14.4. Packing group		
II	II	II
14.5. Environmental haz	ards	
Dangerous for the environment : No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment : No
No supplementary informatio	n available	

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C1
Special provisions (ADR) : 274
Limited quantities (ADR) : 11

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions : T11

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

: TP2, TP27

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Orange plates : 80

Tunnel code : E
EAC code : 2X
APP code : B

Transport by sea

Special provisions (IMDG) : 274
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

Air transport

PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3

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

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
4.1	Skin contact	Modified	
4.1	Inhalation	Modified	
4.1	Ingestion	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		

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International Maritime Dangerous Goods		
Median lethal concentration		
Median lethal dose		
Lowest Observed Adverse Effect Level		
No-Observed Adverse Effect Concentration		
No-Observed Adverse Effect Level		
No-Observed Effect Concentration		
Organisation for Economic Co-operation and Development		
Persistent Bioaccumulative Toxic		
Predicted No-Effect Concentration		
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
Safety Data Sheet		
Sewage treatment plant		
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:				
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3			
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Met. Corr. 1	Corrosive to metals, Category 1			
Ox. Liq. 2	Oxidising Liquids, Category 2			
Ox. Liq. 3	Oxidising Liquids, Category 3			
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A			
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
H272	May intensify fire; oxidiser.			
H290	May be corrosive to metals.			
H302	Harmful if swallowed.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H331	Toxic if inhaled.			
H332	Harmful if inhaled.			
EUH071	Corrosive to the respiratory tract.			

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Met. Corr. 1	H290	Calculation method		
Acute Tox. 4 (Inhalation:vapour)	H332	Expert judgment		
Skin Corr. 1A	H314	Calculation method		
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.