

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

1.1. Product identifier

Product form : Mixture
 Product name : MIDA FLOW 244 CP
 UFI : D940-4017-P00N-W03V
 Product code : CZ00050
 Type of product : Cleaning agent,Detergent
 Product group : Mixture

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

Relevant identified uses

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

CHRISTEYNS s.r.o.
 Vítovská 453/7
 CZ 742 35 Odry, Czech Republic
 Czech Republic
 T +420 556 731 111
legislative@christeyns.com, www.christeyns.com

Distributor

Christeyns UK Ltd.
 Rutland Street
 GB 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 Food Hygiene Ltd. Ltd
 2, Cameron Court, Winwick Quay
 GB WA2 8RE Warrington, Cheshire
 United Kingdom
 T +44 (0)1925 23 46 96
UK-foodinfo@christeyns.com, www.christeyns.com

Distributor

Christeyns Technologies Ireland Ltd
 Station Road
 F12 YW84 Newtown South Ballindine, Co. Mayo
 Ireland
 T 00353 94 936 4011
info@christeyns.ie, www.christeyns.com

Distributor

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

1.4. Emergency telephone number

Country/Area	Organisation/Company	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	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]

Corrosive to metals, Category 1 H290
 Acute toxicity (oral), Category 4 H302
 Skin corrosion/irritation, Category 1, Sub-Category 1B H314
 Full text of 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)



Signal word (CLP)

: Danger

Contains

: Phosphoric acid;Lauryl-, myristyl alcohol, ethoxylated, propoxylated

Hazard statements (CLP)

: H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P264 - Wash hands, forearms and face thoroughly after handling.

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

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P390 - Absorb spillage to prevent material damage.

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 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)

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 substance(s) are 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 %

Component	
Substance(s) not 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	Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phosphoric acid substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, ES, FI, FR, GB, GI, GR, IT, LT, LU, LV, MT, NL, PT, RO, SE, SI, SK, IS, NO, CH, TR); 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	30 – 60	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314
Lauryl-, myristyl alcohol, ethoxylated, propoxylated	CAS-no: 68439-51-0 Einecs nr: 614-484-1	3 – 5	Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethoxylated alcohol C12-14	CAS-no: 68131-39-5 Einecs nr: 500-195-7 EG annex nr: 500-195-7 REACH-no: 01-2119488720-33	1 – 3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
2-Phosphonobutane-1,2,4-tricarboxylic acid	CAS-no: 37971-36-1 Einecs nr: 253-733-5 REACH-no: 05-2115916380-54	1 – 3	Met. Corr. 1, H290 Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
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. For symptom description, see item 11.
Inhalation	: Fresh air, rest.
Skin contact	: Wash off with plenty of water. In case of faintness or symptoms of skin irritation appear, take medical advice.
Eye contact	: Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. If eye irritation persists, take medical advice.
Ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Seek medical advice immediately.

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

Acute effects inhalation	: Irritating to the respiratory system, may cause throat pain and cough.
Acute effects skin	: Causes burns.
Acute effects eyes	: Serious damage 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.
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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.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment	: Concerning personal protective equipment to use, see section 8.
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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.
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6.4. Reference to other sections

No additional information available

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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. Store tightly closed in a dry and cool place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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/m ³
IOEL STEL	2 mg/m ³
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Orthophosphoric acid
WEL TWA (OEL TWA)	1 mg/m ³
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Personal protection equipment

Eye and face protection

Eye protection:

Safety glasses with side-shields (EN 166)

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)

Respiratory protection

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
Colour : Colourless.
Odour : Characteristic.
Odour threshold : Not determined as it is not relevant for the characterization of the product
Melting point/range : Not determined as it is not relevant for the characterization of the product
Freezing point : Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range : Not determined as it is not relevant for the characterization of the product
Flammability : Not determined as it is not relevant for the characterization of the product
Explosive properties : Not determined as it is not relevant for the characterization of the product.
Lower explosion limit : Not determined as it is not relevant for the characterization of the product
Upper explosion limit : Not determined as it is not relevant for the characterization of the product
Flash point : Not determined as it is not relevant for the characterization of the product

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Autoignition temperature	: Not determined as it is not relevant for the characterization of the product
Decomposition temperature	: Not determined as it is not relevant for the characterization of the product
pH	: 1,0 ± 1 (100%)
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 8,40 ± 5 mPas (20°C)
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not determined as it is not relevant for the characterization of the product
Vapour pressure	: Not determined as it is not relevant for the characterization of the product
Vapour pressure at 50°C	: Not determined as it is not relevant for the characterization of the product
Density	: 1,20 ± 0,1 g/ml
Relative density	: 1,20 at (20°C)
Relative vapour density at 20°C	: Not determined as it is not relevant for the characterization of the product
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

MIDA FLOW 244 CP	
ATE CLP (oral)	1307.19 mg/kg bodyweight
Phosphoric acid (7664-38-2)	
LD50 oral rat	> 300 mg/kg bodyweight
LD50 dermal	2740 mg/kg bodyweight
LC50 Inhalation - Rat	850 mg/l
Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
LD50 oral rat	> 2000 – < 5000 mg/kg
Skin corrosion/irritation	: Causes severe skin burns. pH: 1,0 ± 1 (100%)
Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
pH	6 – 7.5
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 1,0 ± 1 (100%)
Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
pH	6 – 7.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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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
Aspiration hazard	: Not classified

Phosphoric acid (7664-38-2)	
Viscosity, kinematic	15.2 mm ² /s @ 20°C

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
EC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 - Other aquatic organisms [2]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC chronic algae	100 mg/l

Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
LC50 - Fish [1]	> 1 – < 10 Leuciscus idus (DIN 38412 parte 15)
EC50 - Crustacea [1]	> 1 – < 10 Daphnia magna (OECD - linea guida 202, parte 1)
EC50 72h - Algae [1]	> 1 – < 10 mg/l Desmodesmus subspicatus (Direttiva 92/69/CEE, C.3)

12.2. Persistence and degradability

MIDA FLOW 244 CP	
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.

Phosphoric acid (7664-38-2)	
Persistence and degradability	Rapidly degradable

Ethoxylated alcohol C12-14 (68131-39-5)	
Persistence and degradability	Rapidly degradable

2-Phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)	
Persistence and degradability	Rapidly degradable

Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	> 60 % ThOD

12.3. Bioaccumulative potential

MIDA FLOW 244 CP	
Partition coefficient n-octanol/water (Log Kow)	Not determined as it is not relevant for the characterization of the product

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

Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)	
Surface tension	≈ 29 mN/m

12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lauryl-, myristyl alcohol, ethoxylated, propoxylated (68439-51-0)

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, EC 2000/532)




: 20 01 29* - detergents containing dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances
15 02 02* - absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

HP Code

: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
HP8 - "Corrosive:" waste which on application can cause skin corrosion.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1805	UN 1805	UN 1805
14.2. UN proper shipping name		
PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution
Transport document description		
UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)	UN 1805 PHOSPHORIC ACID SOLUTION, 8, III	UN 1805 Phosphoric acid, solution, 8, III
14.3. Transport hazard class(es)		
8	8	8
		
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		

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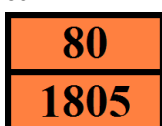
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14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C1
Limited quantities (ADR)	: 5I
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel code	: E
EAC code	: 2R

Transport by sea

Special provisions (IMDG)	: 223
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03

Air transport

PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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Detergent Regulation (648/2004)

Labelling of contents	
Component	%
non-ionic surfactants	5-15%
phosphonates	<5%

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information

: It is recommended to pass the information from this safety data sheet in an appropriate form to the users. The information is currently to the best of our knowledge and believed to be accurate and reliable. This information relates to the specifically named product and may not be valid in combination with other products.
This safety data sheet is in compliance with 1907/2006/EEC. It is the responsibility of the user 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. 4 (Oral)	Acute toxicity (oral), Category 4
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
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.
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]:		
Met. Corr. 1	H290	Calculation method
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Corr. 1B	H314	Calculation method

The classification complies with

: ATP 12

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.