

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

1.1. Product identifier

Product form : Mixture
Product name : Mida FLOW 115 MS
UFI : 0HE8-85Q0-X204-5X2C
Product code : 753
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 : Professional use
Use of the substance/mixture : Alkaline 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
Afrikalaan 182
9000 GENT
Belgium
T +32 (0)9/ 223 38 71 - F +32 (0)9/ 233 03 44
info@christeyns.be - www.christeyns.com

Distributor

Casoria Company Ltd. Ltd
1 Farnham Street
IE- H12 A9K0 Cavan – Co. Cavan
Ireland
T 00353 49 4361869 - F 00353 49 436 1869
sds@casoria.ie - www.casoria.ie

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

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 - F +44 (0)1925 23 46 93
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	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]

Met. Corr. 1 H290
Skin Corr. 1 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

CLP Signal word	: Danger
Contains	: Potassium hydroxide, Potassium Metasilicate
Hazard statements (CLP)	: H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 or doctor/physician.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ 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]
Potassium Metasilicate substance with a Community workplace exposure limit	CAS-no: 1312-76-1 Einecs nr: 215-199-1 REACH-no: 01-2119456888-17	10 – 30	Skin Corr. 1B, H314 STOT SE 3, H335
Potassium hydroxide substance with national workplace exposure limit(s) (IE, GB)	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33	5 – 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290
Sodium cumenesulphonate	CAS-no: 15763-76-5 Einecs nr: 239-854-6 REACH-no: 01-2119489411-37	1 – 3	Eye Irrit. 2, H319
Alcohol ethoxylated propoxylated	CAS-no: 120313-48-6 Einecs nr: 639-733-1 REACH-no: Polymer	0.1 – 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Potassium hydroxide	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33	(0.5 \leq C < 2) Eye Irrit. 2, H319 (0.5 \leq C < 2) Skin Irrit. 2, H315 (2 \leq C < 5) Skin Corr. 1B, H314 (5 \leq C \leq 100) Skin Corr. 1A, 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.
Inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.

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- Skin contact : Wash off with plenty of water. Immediately call a POISON CENTER/doctor. Immediately remove contaminated clothing or footwear.
- 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 with water, do not induce vomiting, call a doctor.

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 : Burns upon contact with the skin.
- 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.

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.
- Emergency procedures : Evacuate unnecessary personnel.

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. After use, container has to be completely emptied and closed. Never return unused material to original container.

Hygiene measures : Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the 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.
- Incompatible products : Strong acids.
- Material(s) to avoid : Never mix with other materials.

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

Potassium hydroxide (1310-58-3)	
Ireland - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL STEL	2 mg/m ³
Regulatory reference	Chemical Agents Code of Practice 2021

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Potassium hydroxide (1310-58-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Potassium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Potassium Metasilicate (1312-76-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	2 mg/m ³ (15 min)

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

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

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:

Provide adequate ventilation

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	: Yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: < 0 °C
Freezing point	: Not available
Boiling point/Boiling range	: ≥ 100 °C
Flammability	: Not available
Explosive properties	: Product is not explosive.
Explosive limits	: Not available
Lower explosion limit	: Not available

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Upper explosion limit	: Not available
Flash point	: Not applicable
Autoignition temperature	: Not available
Decomposition temperature	: Not available
pH	: > 13 (100%)
Viscosity, kinematic	: Not available
Solubility	: Water: completely soluble
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.18 kg/l
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: 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

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.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Never mix with other materials.

10.6. Hazardous decomposition products

No additional information available

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

Potassium hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg
Alcohol ethoxylated propoxylated (120313-48-6)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Sodium cumenesulphonate (15763-76-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	≥ 2000 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns. pH: > 13 (100%)
Serious eye damage/irritation	: Causes serious eye damage. pH: > 13 (100%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Sodium cumenesulphonate (15763-76-5)	
NOAEL (chronic, oral, animal/female, 2 years)	≥ 60 mg/kg bodyweight (OECD 453 method)

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Potassium Metasilicate (1312-76-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified

Sodium cumenesulphonate (15763-76-5)	
NOAEL (oral, rat, 90 days)	763 – 3534 mg/kg bodyweight (OECD 408 method)
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

Potassium hydroxide (1310-58-3)	
LC50 - Fish [1]	80 mg/l
EC50 - Crustacea [1]	30 – 1000 mg/l (OECD 202)

Alcohol ethoxylated propoxylated (120313-48-6)	
LC50 - Fish [1]	1 – 10 mg/l (Leuciscus idus)
EC50 - Crustacea [1]	0.22 – 0.75 mg/l (OECD 202)
EC50 - Other aquatic organisms [1]	0.1 – 1 mg/l
ErC50 other aquatic plants	0.1 – 1 mg/l
NOEC (chronic)	0.25 mg/l
NOEC chronic crustacea	0.25 mg/l (Daphnia Magnia)

Sodium cumenesulphonate (15763-76-5)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 96h - Algae [1]	≥ 758 mg/l Pseudokirchneriella subcapitata
ErC50 algae	> 100 mg/l

12.2. Persistence and degradability

Mida FLOW 115 MS	
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.

Alcohol ethoxylated propoxylated (120313-48-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 %

12.3. Bioaccumulative potential

Potassium hydroxide (1310-58-3)	
Log Pow	0.75

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Alcohol ethoxylated propoxylated (120313-48-6)	
Bioconcentration factor (BCF REACH)	1.9 Fish
Log Pow	5.47
Bioaccumulative potential	Bioaccumulation unlikely.

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 / 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 number		
UN 1719	UN 1719	UN 1719
14.2. UN proper shipping name		
CAUSTIC ALKALI LIQUID, N.O.S.	CAUSTIC ALKALI LIQUID, N.O.S.	Caustic alkali liquid, n.o.s.
Transport document description		
UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide), 8, II, (E)	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide), 8, II	UN 1719 Caustic alkali liquid, n.o.s. (Potassium hydroxide), 8, II
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
II	II	II
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

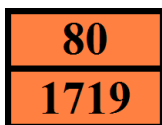
Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BN

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Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80
Orange plates :



Tunnel code : E
EAC code : 2R

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
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

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.

Detergent Regulation (648/2004/EC): Labelling of contents:

Component	%
phosphates, non-ionic surfactants, phosphonates, anionic surfactants	<5%

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
1.2	UFI	Added	

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Indication of changes			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	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. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye 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.

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Full text of H- and EUH-statements:	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
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
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]:		
Met. Corr. 1	H290	Calculation method
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data

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.