

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Mida FLOW 119 DM  
Product code : 653  
Type of product : Detergent  
Product group : Mixture

#### 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

Restrictions on use : The product should not be used for purposes other than those shown above without first referring to the supplier and obtaining written handling instructions

#### 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](mailto:info@christeyns.be) - [www.christeyns.com](http://www.christeyns.com)

##### Distributor

Christeyns UK Ltd.  
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##### Distributor

Christeyns Food Hygiene Ltd. Ltd  
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T +44(0)1925 234696 - F +44(0)1925 234693  
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Casoria Company Ltd. Ltd  
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IE– H12 A9K0 Cavan – Co. Cavan  
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##### Distributor

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

#### 1.4. Emergency telephone number

| Country        | Official advisory body                                                       | Address                                  | Emergency number                                                                                       | Comment                              |
|----------------|------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham        | 0344 892 0111                                                                                          | Only for healthcare<br>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. 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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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

CLP Signal word

: Danger

Contains

: Sodium hydroxide, Potassium hydroxide

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.  
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/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

## 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]                            |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------|
| Sodium hydroxide                                                                       | CAS-no: 1310-73-2<br>Einecs nr: 215-185-5                                                            | 30 – 60 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318                              |
| Potassium hydroxide<br>substance with national workplace exposure limit(s)<br>(IE, GB) | CAS-no: 1310-58-3<br>Einecs nr: 215-181-3<br>EG annex nr: 019-002-00-8<br>REACH-no: 01-2119487136-33 | 3 – 5   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Met. Corr. 1, H290 |

#### Specific concentration limits:

| Name                | Product identifier                                                                                   | Specific concentration limits                                                                                                                     |
|---------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Potassium hydroxide | CAS-no: 1310-58-3<br>Einecs nr: 215-181-3<br>EG annex nr: 019-002-00-8<br>REACH-no: 01-2119487136-33 | ( 0.5 ≤ C < 2) Eye Irrit. 2, H319<br>( 0.5 ≤ C < 2) Skin Irrit. 2, H315<br>( 2 ≤ C < 5) Skin Corr. 1B, H314<br>( 5 ≤ C ≤ 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 case of doubt or persistent symptoms, consult always a physician.

Inhalation

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

Skin contact

: Take off immediately all contaminated clothing. Wash off immediately 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 call a POISON CENTER/doctor.

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### 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       | : 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

|                  |                   |
|------------------|-------------------|
| Explosion hazard | : Not applicable. |
|------------------|-------------------|

### 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

Stop leak without risks if possible. Prevent product from entering drains.

### 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.                                                                                                 |

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

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Storage conditions | : Keep only in original container. Keep out of frost. |
|--------------------|-------------------------------------------------------|

### 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 <sup>3</sup>                   |
| Regulatory reference                          | Chemical Agents Code of Practice 2021 |
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Potassium hydroxide                   |
| WEL STEL (OEL STEL)                           | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

#### 8.1.2. Recommended monitoring procedures

No additional information available

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### 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:

Ensure good 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                                          | : Light yellow. Clear. |
| Physical state/form                             | : Liquid.              |
| Odour                                           | : Characteristic.      |
| Odour threshold                                 | : Not available        |
| Melting point/range                             | : Not available        |
| Freezing point                                  | : Not available        |
| Boiling point/Boiling range                     | : $\geq 100$ °C        |
| Flammability                                    | : Not available        |
| Explosive limits                                | : Not available        |
| Lower explosion limit                           | : Not available        |
| Upper explosion limit                           | : Not available        |
| Flash point                                     | : Not applicable       |
| Autoignition temperature                        | : Not available        |
| Decomposition temperature                       | : Not available        |
| pH                                              | : $\geq 13$            |
| Viscosity, kinematic                            | : Not available        |
| Solubility                                      | : Not available        |
| Partition coefficient n-octanol/water (Log Kow) | : Not available        |
| Vapour pressure                                 | : Not available        |
| Vapour pressure at 50 °C                        | : Not available        |
| Density                                         | : 1.475 kg/l           |
| Relative density                                | : Not available        |
| Relative vapour density at 20 °C                | : Not available        |
| Particle characteristics                        | : 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

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

Humid air.

### 10.5. Incompatible materials

Never mix with other materials.

### 10.6. Hazardous decomposition products

None.

## 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 |
|---------------|-----------|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Skin corrosion/irritation | : Causes severe skin burns.<br>pH: $\geq 13$ |
|---------------------------|----------------------------------------------|

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Serious eye damage/irritation | : Causes serious eye damage.<br>pH: $\geq 13$ |
|-------------------------------|-----------------------------------------------|

|                                   |                  |
|-----------------------------------|------------------|
| 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 |
|-------------------|------------------|

### 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) |
|----------------------|---------------------------|

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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|                           |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

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### Potassium hydroxide (1310-58-3)

Log Pow 0.75

#### 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                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                 |                                                                                     |                                                                                       |
| UN 3266                                                                             | UN 3266                                                                             | UN 3266                                                                               |
| <b>14.2. UN proper shipping name</b>                                                |                                                                                     |                                                                                       |
| CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.                                          | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.                                          | Corrosive liquid, basic, inorganic, n.o.s.                                            |
| <b>Transport document description</b>                                               |                                                                                     |                                                                                       |
| UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide), 8, II, (E)   | UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide), 8, II        | UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide), 8, II          |
| <b>14.3. Transport hazard class(es)</b>                                             |                                                                                     |                                                                                       |
| 8                                                                                   | 8                                                                                   | 8                                                                                     |
|  |  |  |
| <b>14.4. Packing group</b>                                                          |                                                                                     |                                                                                       |
| II                                                                                  | II                                                                                  | II                                                                                    |
| <b>14.5. Environmental hazards</b>                                                  |                                                                                     |                                                                                       |
| Dangerous for the environment: No                                                   | Dangerous for the environment: No<br>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

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Portable tank and bulk container special provisions (ADR) : TP2, TP27

Tank code (ADR) : L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

Orange plates : 

Tunnel code : E

EAC code : 2X

APP code : B

### 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.

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 |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |          |

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| Indication of changes |              |          |          |
|-----------------------|--------------|----------|----------|
| Section               | Changed item | Change   | Comments |
| 9.1                   | Density      | 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             |
| 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.                       |
| H318                                | Causes serious eye damage.                    |
| H319                                | Causes serious eye irritation.                |
| Met. Corr. 1                        | Corrosive to metals, Category 1               |

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### Full text of H- and EUH-statements:

|               |                                                        |
|---------------|--------------------------------------------------------|
| 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                  |

### 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. 1A | H314 | Calculation method |
| Eye Dam. 1    | H318 | Calculation method |

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.