

# CYCLOHEXYLMETHYLDIMETHOXYISILANE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 1/5/2015 Revision date: 3/4/2024 Supersedes version of: 5/18/2022 Version: 3.0

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

#### 1.1. Product identifier

|                               |  |
|-------------------------------|--|
| Product form                  | : Substance  |
| Substance name                | : CYCLOHEXYLMETHYLDIMETHOXYISILANE                 |
| Chemical name                 | : CYCLOHEXYLDIMETHOXYMETHYLSILANE                  |
| EC Index-No.                  | : 014-011-00-3                                     |
| EC-No.                        | : 402-140-1  |
| CAS-No.                       | : 17865-32-6                                       |
| Product code                  | : SIC2469.0  |
| Formula                       | : C <sub>9</sub> H <sub>20</sub> O <sub>2</sub> Si |
| Synonyms                      | : DIMETHOXYMETHYLSILYLCYCLOHEXANE                  |
| Product group                 | : Trade product                                    |
| Other means of identification | : cyclohexyldialkoxyalkylsilane                    |
| Chemical family               | : ORGANOMETHOXYISILANE                             |

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### GELEST, INC.

11 East Steel Road  
Morrisville, PA 19067

##### USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

[info@gelest.com](mailto:info@gelest.com) - [www.gelest.com](http://www.gelest.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|   |      |
|---|------|
| Skin corrosion/irritation, Category 2                             | H315 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |
| Full text of H- and EUH-statements: see section 16                |      |

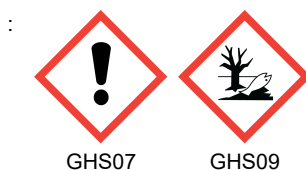
##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazard statements (CLP)

: H315 - Causes skin irritation.

H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.

### 2.3. Other hazards

Other hazards which do not result in classification : GHS UN classification. Acute toxicity (oral), Category 5. May be harmful if swallowed.

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent  
Name : CYCLOHEXYLMETHYLDIMETHOXYSIANE  
CAS-No. : 17865-32-6  
EC-No. : 402-140-1  
EC Index-No. : 014-011-00-3

| Name                            | Product identifier   | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|--|------|---|
| Cyclohexylmethyldimethoxysilane | CAS-No.: 17865-32-6<br>EC-No.: 402-140-1<br>EC Index-No.: 014-011-00-3 | > 95 | Skin Irrit. 2, H315<br>Aquatic Chronic 2, H411                  |

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

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash immediately with plenty of soap and water.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness. Onset of symptoms may be delayed up to 48 hours.

Chronic symptoms : On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision.

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

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.  
Unsuitable extinguishing media : Avoid water spray.

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

Fire hazard : Combustible liquid. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.  
Avoid all eye and skin contact and do not breathe vapour and mist.

## SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eyes or face protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools. Remove sources of ignition.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only non-sparking tools.  
Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Keep container tightly closed.  
Incompatible materials : Moisture. Water :  
Storage area : Store in a well-ventilated place. Store away from heat.

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### 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

No additional information available

#### 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

| CYCLOHEXYLMETHYLDIMETHOXSILANE (17865-32-6) |                           |
|---|---------------------------|
| DNEL/DMEL (Workers)                         |                           |
| Long-term - systemic effects, dermal        | 2.3 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation    | 16.2 mg/m <sup>3</sup>    |
| DNEL/DMEL (General population)              |                           |
| Long-term - systemic effects, oral          | 1.15 mg/kg bodyweight/day |

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles. Contact lenses should not be worn

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing. Impermeable clothing

###### Hand protection:

Neoprene or nitrile rubber gloves. Wear impervious gloves

###### Other skin protection

###### Materials for protective clothing:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

NIOSH-certified organic vapor (black cartridge) respirator.

##### 8.2.2.4. Thermal hazards

No additional information available

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### 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  | : Straw.                                 |
| Appearance                                      | : Clear liquid.                          |
| Molecular mass                                  | : 188.34 g/mol                           |
| Odour   | : Mild.                                  |
| Odour threshold                                 | : Not available                          |
| Melting point                                   | : Not available                          |
| Freezing point                                  | : < -40 °C                               |
| Boiling point                                   | : 196 °C                                 |
| Flammability                                    | : Combustible liquid                     |
| Explosive properties                            | : No data available.                     |
| Oxidising properties                            | : Non oxidizing.                         |
| Explosive limits                                | : Not available                          |
| Lower explosion limit                           | : Not available                          |
| Upper explosion limit                           | : Not available                          |
| Flash point                                     | : 66 °C                                  |
| Auto-ignition temperature                       | : 235 (>) °C                             |
| Decomposition temperature                       | : Not available                          |
| pH  | : Not available                          |
| Viscosity, kinematic                            | : Not available                          |
| Solubility                                      | : Insoluble in water. Reacts with water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                          |
| Partition coefficient n-octanol/water (Log Pow) | : 2.85 Source: EPISUITE, estimate        |
| Vapour pressure                                 | : 12 mm Hg @20 C                         |
| Vapour pressure at 50°C                         | : Not available                          |
| Density   | : Not available                          |
| Relative density                                | : 0.9472                                 |
| Relative vapour density at 20°C                 | : > 1                                    |
| 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

Refractive index : 1.4354

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Forms explosive mixtures with air on intense heating.

### 10.2. Chemical stability

Stable in sealed containers.

### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating methanol.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

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### 10.5. Incompatible materials

Moisture. Water :

### 10.6. Hazardous decomposition products

Methanol. Organic acid vapors.

## 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

#### CYCLOHEXYLMETHYLDIMETHOXYSILANE (17865-32-6)

|                       |   |
|-----------------------|---|
| LD50 oral rat         | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:   |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 5.53 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                        |

#### Cyclohexylmethyldimethoxysilane (17865-32-6)

|                       |   |
|-----------------------|---|
| LD50 oral rat         | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:   |
| LD50 dermal rat       | > 2000 mg/kg bodyweight Animal: rat, Guideline: other:, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 5.53 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                        |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Not classified  
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

#### CYCLOHEXYLMETHYLDIMETHOXYSILANE (17865-32-6)

|                            |  |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |
|----------------------------|--|

#### Cyclohexylmethyldimethoxysilane (17865-32-6)

|                            |  |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |
|----------------------------|--|

Aspiration hazard : Not classified

#### Cyclohexylmethyldimethoxysilane (17865-32-6)

|                      |   |
|----------------------|---|
| Viscosity, kinematic | 1.7 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' |
|----------------------|---|

### 11.2. Information on other hazards

No additional information available

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### 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) : Toxic to aquatic life with long lasting effects.

##### CYCLOHEXYLMETHYLDIMETHOXYLANE (17865-32-6)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 1.602 mg/l Source: EPISUITE  |
| LC50 - Fish [2]      | 24 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)             |
| EC50 - Crustacea [1] | 6.677 mg/l Source: EPISUITE  |
| EC50 - Crustacea [2] | 13 mg/l Test organisms (species): Daphnia magna  |
| EC50 72h - Algae [1] | 35 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 96h - Algae [1] | 0.665 mg/l Source: EPISUITE  |

##### Cyclohexylmethyldimethoxysilane (17865-32-6)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 1.602 mg/l Source: EPISUITE  |
| LC50 - Fish [2]      | 24 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)             |
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| EC50 96h - Algae [1] | 0.665 mg/l Source: EPISUITE  |

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

##### CYCLOHEXYLMETHYLDIMETHOXYLANE (17865-32-6)

|   |                                 |
|---|---------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.85 Source: EPISUITE, estimate |
|---|---------------------------------|

##### Cyclohexylmethyldimethoxysilane (17865-32-6)

|   |                                 |
|---|---------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.85 Source: EPISUITE, estimate |
|---|---------------------------------|

#### 12.4. Mobility in soil

##### CYCLOHEXYLMETHYLDIMETHOXYLANE (17865-32-6)

|                  |       |
|------------------|-------|
| Mobility in soil | 297.2 |
|------------------|-------|

##### Cyclohexylmethyldimethoxysilane (17865-32-6)

|                  |       |
|------------------|-------|
| Mobility in soil | 297.2 |
|------------------|-------|

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

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### 12.7. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

## SECTION 13: Disposal considerations






### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility..

Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| <b>14.1. UN number or ID number</b>  |   |   |   |   |
| Not applicable   | Not applicable  | Not applicable  | Not applicable  | Not applicable  |
| <b>14.2. UN proper shipping name</b>   |   |   |   |   |
| Not applicable   | Not applicable  | Not applicable  | Not applicable  | Not applicable  |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |   |
| Not applicable   | 9   | 9   | Not applicable  | Not applicable  |
|   |  |  |  |  |
| <b>14.4. Packing group</b>   |   |   |   |   |
| Not applicable   | III   | III   | Not applicable  | Not applicable  |
| <b>14.5. Environmental hazards</b>   |   |   |   |   |
| Dangerous for the environment: Yes   | Dangerous for the environment: Yes<br>Marine pollutant: Yes                         | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  |
| This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons (450 liters). The product is not regulated for transport by the IATA, ADR/RID, ADN or the IMDG regulations. Therefore, no UN# is applicable to this product. |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available



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### 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

##### REACH Annex XVII (Restriction List)

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on   | Entry title or description  |
|----------------|---|---|
| 3(b)           | CYCLOHEXYLMETHYLDIMETHOXSILANE ;<br>Cyclohexylmethyldimethoxysilane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c)           | CYCLOHEXYLMETHYLDIMETHOXSILANE ;<br>Cyclohexylmethyldimethoxysilane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   |

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### 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)

#### 15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Abbreviations and acronyms:

|  |  |
|--|--|
|  | Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor |
|--|--|

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Other information : Prepared by safety and environmental affairs.

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| H315                                | Causes skin irritation.   |
| H411                                | Toxic to aquatic life with long lasting effects.                  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |

SDS EU (REACH Annex II) - Custom v22

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