

# LOCTITE 401

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law, and based on EU 2015/830.  
Issue date: 11/08/2025 Version: 1.0  
SDS No: 114576-0270



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

#### 1.1. Product identifier

Product form : Mixture  
Product name : LOCTITE 401  
Product code : S.14765

#### 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 : Adhesive

##### 1.2.2. Uses advised against

No additional information available

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

##### Distributor

Sparex Limited c/o AGCO SAS  
AGCO ENNERY PACKAGING CENTER  
5299 RUE THOMAS EDISON (BAT. C)  
57365 ENNERY  
FRANCE  
T +33 387724100  
[Sparex@gbk-ingelheim.de](mailto:Sparex@gbk-ingelheim.de) - [www.sparex.com](http://www.sparex.com)

E-mail address of competent person responsible for the SDS: [sds@gbk-ingelheim.de](mailto:sds@gbk-ingelheim.de)

##### Manufacturer

Henkel AG & Co. KGaA  
Henkelstr. 67  
40589 Düsseldorf  
Germany  
T +49 211 797 0 - F +49 211 798 2009  
[ua-productsafety.de@henkel.com](mailto:ua-productsafety.de@henkel.com)

#### 1.4. Emergency telephone number

Emergency number : Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

### SECTION 2: Hazards identification

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

##### Classification according to GB CLP (SI 2019:720 as amended)

|                                                                                            |      |
|--------------------------------------------------------------------------------------------|------|
| Skin corrosion/irritation, Category 2                                                      | H315 |
| Serious eye damage/eye irritation, Category 2                                              | H319 |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 |

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

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GHS UK) :



GHS07

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Signal word (GHS UK)       | : Warning                                                                                                             |
| Contains                   | : ethyl 2-cyanoacrylate                                                                                               |
| Hazard statements (GHS UK) | : H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation. |

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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary statements (GHS UK) | : P261 - Avoid breathing mist, vapours.<br>P280 - Wear protective gloves, eye protection.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 - If eye irritation persists: Get medical attention.<br>P501 - Dispose of contents and container to in accordance with local and national regulations. |
| EUH-statements (GHS UK)           | : EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.                                                                                                                                                                                                                                                                                                               |

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

| Component                                                                                        |                                   |
|--------------------------------------------------------------------------------------------------|-----------------------------------|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII  | ethyl 2-cyanoacrylate (7085-85-0) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | ethyl 2-cyanoacrylate (7085-85-0) |

#### Results of Endocrine Disruptor assessment

| Component                                                                                                                                                                                                                                                                                                         |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | ethyl 2-cyanoacrylate(7085-85-0) |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                | Product identifier                      | %    | Classification according to GB CLP (SI 2019:720 as amended)  |
|---------------------------------------------------------------------|-----------------------------------------|------|--------------------------------------------------------------|
| ethyl 2-cyanoacrylate<br>substance with workplace exposure limit(s) | CAS-No.: 7085-85-0<br>EC-No.: 230-391-5 | ≥ 50 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |

#### Specific concentration limits:

| Name                  | Product identifier                      | Specific concentration limits (%) |
|-----------------------|-----------------------------------------|-----------------------------------|
| ethyl 2-cyanoacrylate | CAS-No.: 7085-85-0<br>EC-No.: 230-391-5 | (10 ≤ C ≤ 100) STOT SE 3; H335    |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                     |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
|-------------------------------------|------------------------------------------------------------------|

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|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                                               |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |

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

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Symptoms/effects after inhalation   | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Causes skin irritation. Redness.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.    |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide.                     |
| Unsuitable extinguishing media | : Do not use a solid water stream as it may scatter and spread fire. |

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

|                                                  |                                                                                                                                |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and nitrogen oxides (NO <sub>x</sub> ). |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Contain the extinguishing fluids by bunding. Do not allow run-off from fire fighting to enter drains or water courses. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.                                                                                                                                     |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Avoid contact with eyes, skin or mucous membrane. Evacuate the danger area. Evacuate personnel to a safe area. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                     |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapours. |

#### 6.1.2. For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

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

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material.                                                                                                                                       |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

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### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |                                                                                                                                                                                                                     |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Avoid contact with eyes, skin or mucous membrane.                                                                                                                                                                 |
| Precautions for safe handling     | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours.                                                                       |
| Hygiene measures                  | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Technical measures           | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions           | : Store in a well-ventilated place. Keep cool.                              |
| Storage temperature          | : < 30 °C                                                                   |
| Information on mixed storage | : Keep away from food, drink and animal feeding stuffs.                     |
| Storage area                 | : Protect from moisture.                                                    |
| Packaging materials          | : Store always product in container of same material as original container. |

### 7.3. Specific end use(s)

See Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| ethyl 2-cyanoacrylate (7085-85-0)             |                                       |
|-----------------------------------------------|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Ethyl cyanoacrylate                   |
| WEL STEL (OEL STEL)                           | 1.5 mg/m <sup>3</sup>                 |
|                                               | 0.3 ppm                               |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

#### 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

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### 8.2.2.1. Eye and face protection

##### Eye protection:

Protective goggles (EN 166)

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Chemically resistant protective gloves. Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

| Hand protection   |                |                   |                |             |          |
|-------------------|----------------|-------------------|----------------|-------------|----------|
| Type              | Material       | Permeation        | Thickness (mm) | Penetration | Standard |
| protective gloves | Nitrile rubber | 6 (> 480 minutes) | 0,4            |             |          |

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| Physical state                                  | : Liquid                               |
| Colour                                          | : colourless to yellowish.             |
| Odour                                           | : sharp.                               |
| Odour threshold                                 | : Not available                        |
| pH                                              | : Not available                        |
| Melting point                                   | : Not available                        |
| Freezing point                                  | : Not available                        |
| Boiling point                                   | : > 149 °C (> 300.2 °F)                |
| Flash point                                     | : 80 – 93 °C (176 - 199.4 °F)          |
| Explosive limits                                | : Not available                        |
| Vapour pressure                                 | : < 700 mbar                           |
| Vapour pressure at 50°C                         | : Not available                        |
| Relative vapour density at 20°C                 | : Not available                        |
| Relative density                                | : > 1                                  |
| Density                                         | : 1.1 g/cm³ 20°C                       |
| Solubility                                      | : Water: Easily soluble                |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                        |
| Auto-ignition temperature                       | : 485 °C (905 °F)                      |
| Decomposition temperature                       | : Not applicable                       |
| Viscosity, kinematic                            | : > 20.5 mm²/s                         |
| Viscosity, dynamic                              | : 100 – 120 mPa·s Brookfield Viscosity |
| Explosive properties                            | : Not available                        |

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### 9.2. Other information

VOC content : < 3 % DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
Particle characteristics : Not applicable  
Additional information : Solidifying temperature < -25 °C (< -13 °F)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with water. Reactions with amines. Reacts alkaline with water and become solid. Exothermic reaction. Polymerisation risk.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Water, humidity. alkalis. alcohols.

### 10.6. Hazardous decomposition products

Not known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| LOCTITE 401                       |              |
|-----------------------------------|--------------|
| LD50 oral                         | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 2 mg/l/4h    |
| ethyl 2-cyanoacrylate (7085-85-0) |              |
| LD50 oral                         | 5000 mg/kg   |
| LD50 dermal                       | 2500 mg/kg   |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
STOT-single exposure : May cause respiratory irritation.  
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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### Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### 12.2. Persistence and degradability

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|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### ethyl 2-cyanoacrylate (7085-85-0)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Component

|                                   |                                                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ethyl 2-cyanoacrylate (7085-85-0) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Packaging that is not properly emptied must be disposed of as the unused product.

European List of Waste (LoW, EC 2000/532) : 08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances

## SECTION 14: Transport information

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

| ADR         | IMDG | IATA | ADN | RID |
|-------------|------|------|-----|-----|
| NOT SUBJECT |      |      |     |     |

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| ADR                                     | IMDG          | IATA                                                                              | ADN           | RID           |
|-----------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |                                                                                   |               |               |
| Not applicable                          | Not regulated | UN 3334                                                                           | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |                                                                                   |               |               |
| Not applicable                          | Not regulated | Aviation regulated liquid,<br>n.o.s.                                              | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |                                                                                   |               |               |
| Not applicable                          | Not regulated | 9                                                                                 | Not regulated | Not regulated |
| Not applicable                          | Not regulated |  | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |                                                                                   |               |               |
| Not applicable                          | Not regulated | III                                                                               | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |                                                                                   |               |               |
| Dangerous for the<br>environment: No    | Not regulated | Dangerous for the<br>environment: No                                              | Not regulated | Not regulated |
| No supplementary information available  |               |                                                                                   |               |               |

### 14.6. Special precautions for user

#### Overland transport

EAC code : 2Z

#### Transport by sea

Not regulated

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provisions (IATA) : A27  
ERG code (IATA) : 9A

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable



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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. National regulations

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

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

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

###### UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC) above the 0.1% level of disclosure

###### Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : Not subject to the Seveso III Directive

###### GB PIC regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

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

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

###### Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

###### Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

###### Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

##### 15.1.2. Other Information

VOC content : < 3 % DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------|
| ACGIH   | American Conference of Government Industrial Hygienists                                         |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| OEL     | Occupational Exposure Limit                                                                     |
| ATE     | Acute Toxicity Estimate                                                                         |
| BCF     | Bioconcentration factor                                                                         |
| BLV     | Biological limit value                                                                          |
| BOD     | Biochemical oxygen demand (BOD)                                                                 |
| CAS-No. | Chemical Abstract Service number                                                                |

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| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  |
| COD                         | Chemical oxygen demand (COD)                                                 |
| CSA                         | Chemical safety assessment                                                   |
| DMEL                        | Derived Minimal Effect level                                                 |
| DNEL                        | Derived-No Effect Level                                                      |
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| ED                          | Endocrine disruptor                                                          |
| EN                          | European Standard                                                            |
| EWC                         | European waste catalogue                                                     |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration                                              |
| N.O.S.                      | Not Otherwise Specified                                                      |
| 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                       |
| OSHA                        | Occupational Safety & Health Administration                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| PPE                         | Personal protection equipment                                                |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| TF                          | Technical function                                                           |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| TWA                         | Time Weighted Average                                                        |
| UFI                         | Unique Formula Identifier                                                    |
| VOC                         | Volatile Organic Compounds                                                   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |

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| Abbreviations and acronyms: |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| ADG                         | Transport of Australian Dangerous Goods                                                             |
| DOT                         | Department of Transport                                                                             |
| GHS                         | Globally Harmonized System of Classification, Labelling and Packaging of Chemicals                  |
| IBC-Code                    | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| MARPOL 73/78                | MARPOL 73/78: International Convention for the Prevention of Pollution From Ships                   |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006   |
| TDG                         | Transportation of Dangerous Goods                                                                   |

Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

| Full text of H- and EUH-statements: |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H315                                | Causes skin irritation.                                                                    |
| H319                                | Causes serious eye irritation.                                                             |
| H335                                | May cause respiratory irritation.                                                          |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                    |
|---------------------------------------------------------------------------------------------------------------------------|------|--------------------|
| Skin Irrit. 2                                                                                                             | H315 | Calculation method |
| Eye Irrit. 2                                                                                                              | H319 | Calculation method |
| STOT SE 3                                                                                                                 | H335 | Calculation method |

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.