

# SAFETY DATA SHEET

according to Regulation (EC) No. 830/2015

## MACROFAN ULTRA HS FAST HARDENER

Version 1.22

Revision Date 22.01.2019

Print Date 05.02.2019

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

#### 1.1 Product identifier

Trade name : MACROFAN ULTRA HS FAST HARDENER  
Product code : L0MH0410

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

Use of the Substance/Mixture : Paints, varnishes and enamels  
Chemical nature : Poliysocyanic compound - professional use

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

Company : Lechler SpA  
Via Cecilio 17  
22100 Como- CO-  
Telephone : +39031586111  
Telefax : +39031586206  
E-mail address : safety@lechler.eu  
Responsible/issuing person

#### 1.4 Emergency telephone number

Tel. +39-031-586301 Fax +39-031-586299

This telephone number is available during office hours only.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Flammable liquids, Category 3                                | H226: Flammable liquid and vapour.   |
| Respiratory sensitisation, Category 1                        | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitisation, Category 1                               | H317: May cause an allergic skin reaction.                                       |
| Specific target organ toxicity - single exposure, Category 3 | H336: May cause drowsiness or dizziness.   |
| Specific target organ toxicity - single exposure, Category 3 | H335: May cause respiratory irritation.  |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements

: EUH066 Repeated exposure may cause skin dryness or cracking.  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P284 Wear respiratory protection.  
**Response:**  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

- 28182-81-2 Polysocyanate HDI Derivative
- 53880-05-0 Isophorondiisocyanate homopolymer
- 822-06-0 hexamethylene-di-isocyanate
- 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

### Additional Labelling:

Restricted to professional users.

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

None known.

No hazards resulting from the material as supplied.

The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

Chemical nature : Liquid solution

#### Hazardous components

| Chemical name  | CAS-No.<br>EC-No.<br>Registration number         | Classification<br>(REGULATION (EC) No<br>1272/2008)  | Concentration<br>[%] |
|--|--|--|----------------------|
| Polysocyanate HDI<br>Derivative                                    | 28182-81-2<br>500-060-2<br>01-2119485796-17      | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>Resp. Sens. 1; H334   | >= 30 - < 50         |
| Isophorondiisocyanate<br>homopolymer                               | 53880-05-0<br>500-125-5<br>01-2119488734-24      | Resp. Sens. 1; H334<br>Skin Sens. 1B; H317<br>STOT SE 3; H335  | >= 17,5 - < 20       |
| Hydrocarbons, C9,<br>aromatics                                     | 64742-95-6<br>918-668-5<br>01-2119455851-35-0006 | Flam. Liq. 3; H226<br>STOT SE 3; H335, H336<br>Aquatic Chronic 2; H411<br>Asp. Tox. 1; H304<br>EUH066<br>Note P  | >= 0,1 - < 1         |
| ethylene bis(3-<br>mercaptopropionate)                             | 22504-50-3<br>245-044-3                          | Acute Tox. 4; H302<br>Aquatic Chronic 2; H411  | >= 0,1 - < 1         |
| 3-isocyanatomethyl-<br>3,5,5-<br>trimethylcyclohexyl<br>isocyanate | 4098-71-9<br>223-861-6<br>01-2119490408-31       | Acute Tox. 3; H331<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>Aquatic Chronic 2; H411<br>Note 2 | >= 0,1 - < 0,5       |
| hexamethylene-di-<br>isocyanate                                    | 822-06-0<br>212-485-8<br>01-2119457571-37        | Acute Tox. 3; H331<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>STOT SE 3; H335<br>Note 2                            | >= 0,1 - < 0,5       |
| Substances with a workplace exposure limit :                       |  |  |                      |
| n-butyl acetate  | 123-86-4<br>204-658-1<br>01-2119485493-29        | Flam. Liq. 3; H226<br>STOT SE 3; H336  | >= 25 - < 30         |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

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### 4.1 Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.  
Never give anything by mouth to an unconscious person.
- If inhaled : Remove to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Do NOT use solvents or thinners.  
Put shower on working place
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Seek medical advice.  
Put eye-washer on working place  
Remove contact lenses.
- If swallowed : If accidentally swallowed obtain immediate medical attention.  
Do NOT induce vomiting.  
Keep at rest.

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

- Symptoms : No information available.
- Risks : No information available.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.  
Seek medical advice.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Keep containers and surroundings cool with water spray.
- Unsuitable extinguishing media : Do NOT use water jet.

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

Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: Accidental release measures

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

Personal precautions : Solvent vapours are heavier than air and may spread along floors.  
Ensure adequate ventilation.  
Use personal protective equipment.  
Evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Ventilate the area.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean with detergents. Avoid solvents.  
Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises water (45 parts by volume)/ethanol or isopropanol (50 parts)/concentrated (d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts)/water (95 parts).  
  
Pick up and transfer to properly labelled containers.  
Clean contaminated surface thoroughly.

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Dam up.  
Soak up with inert absorbent material and dispose of as hazardous waste.

### 6.4 Reference to other sections

Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Use only in area provided with appropriate exhaust ventilation.  
Avoid contact with skin, eyes and clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid inhalation of vapour or mist.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Thoroughly mix before using  
After using, store in a well-sealed container

Advice on protection against fire and explosion : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.  
When transferring from one container to another apply earthing measures and use conductive hose material.  
No sparking tools should be used.  
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
No smoking.

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

Requirements for storage areas and containers : Observe label precautions.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store between 5° an 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.  
Electrical installations / working materials must comply with the technological safety standards.  
Store in accordance with the particular national regulations.

Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

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German storage class : 3 Flammable liquids

### 7.3 Specific end use(s)

: This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Components  | CAS-No.   | Value                                  | Control parameters | Update     | Basis |
|---|-----------|--|--------------------|------------|-------|
| n-butyl acetate   | 123-86-4  | TWA                                    | 50 ppm             | 2016-03-01 | ACGIH |
|   |           | STEL                                   | 150 ppm            | 2016-03-01 | ACGIH |
| 3-isocyanatomet hyl-3,5,5-trimethylcyclo hexyl isocyanate | 4098-71-9 | TWA                                    | 0,005 ppm          |            | ACGIH |
| Further information                                       | :         | Resp. Sens.: Respiratory sensitisation |                    |            |       |
| hexamethylen e diisocyanate                               | 822-06-0  | TWA                                    | 0,005 ppm          | 2007-01-01 | ACGIH |

#### DNEL

Polysocyanate HDI Derivative : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 0,5 mg/m3

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term local effects  
Value: 1 mg/m3

hexamethylene-di-isocyanate : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 0,07 mg/m3

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 0,07 mg/m3

End Use: Workers

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|                              |   |   |
|------------------------------|---|---|
|                              |   | Exposure routes: Inhalation<br>Potential health effects: Long-term systemic effects<br>Value: 0,035 mg/m <sup>3</sup>                       |
|                              |   | End Use: Workers<br>Exposure routes: Inhalation<br>Potential health effects: Long-term local effects<br>Value: 0,035 mg/m <sup>3</sup>      |
| n-butyl acetate              | : | End Use: Professional use<br>Exposure routes: Skin contact<br>Potential health effects: Local effects<br>Exposure time: 8 h<br>Value: 7 ppm |
|                              |   | End Use: Professional use<br>Exposure routes: Inhalation<br>Potential health effects: Local effects<br>Value: 48 mg/m <sup>3</sup>          |
| PNEC                         |   |   |
| Polysocyanate HDI Derivative | : | Marine water<br>Value: 0,0127 mg/l  |
|                              |   | Fresh water<br>Value: 0,127 mg/l  |
|                              |   | Marine sediment<br>Value: 26670 mg/kg   |
|                              |   | Fresh water sediment<br>Value: 266700 mg/kg   |
|                              |   | Intermittent use/release<br>Value: 1,27 mg/l  |
|                              |   | Sewage treatment plant<br>Value: 38,3 mg/l  |
|                              |   | Soil<br>Value: 53182 mg/kg  |
| hexamethylene-di-isocyanate  | : | Marine water<br>Value: 0,00774 mg/l   |
|                              |   | Fresh water<br>Value: 0,0774 mg/l   |
|                              |   | Marine sediment<br>Value: 0,001334 mg/kg  |
|                              |   | Fresh water sediment  |



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Value: 0,01334 mg/kg

Intermittent use/release

Value: 0,774 mg/l

Sewage treatment plant

Value: 8,42 mg/l

Soil

Value: 0,0026 mg/kg

n-butyl acetate

: Water

Value: 0,18 mg/l

Soil

Value: 0,093 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Use only in spray paint booth or enclosure.

#### Personal protective equipment

Respiratory protection

: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Wear a positive-pressure supplied-air respirator. Apply technical measures to comply with the occupational exposure limits.

Hand protection

: For prolonged or repeated contact use protective gloves. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Wash your hands and put on barrier creams

Eye protection

: Chemical resistant goggles must be worn.

Skin and body protection

: Skin should be washed after contact. Personnel should wear protective clothing. Flame retardant antistatic protective clothing.

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Workers should wear antistatic footwear.

### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Appearance                             | : liquid                                  |
| Odour                                  | : solvent-like                            |
| Flash point                            | : > 23 - 55 °C                            |
| Ignition temperature                   | : not determined                          |
| Lower explosion limit                  | : No data available                       |
| Upper explosion limit                  | : No data available                       |
| Auto-ignition temperature              | : Not applicable                          |
| pH                                     | : not determined                          |
| Freezing point                         | : Not applicable                          |
| Boiling point                          | : not determined                          |
| Vapour pressure                        | : 1 hPa<br>at 50 °C                       |
| Density                                | : 1,0235 g/cm <sup>3</sup>                |
| Water solubility                       | : not determined                          |
| Partition coefficient: n-octanol/water | : No data available                       |
| Solubility in other solvents           | : not determined                          |
| Flow time                              | : 18 s<br>4 mm<br>Method: ASTM D 1200 '82 |
| Relative vapour density                | : Not applicable                          |
| Evaporation rate                       | : not determined                          |

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### 9.2 Other information

Solids by weight : 69,3 %

Volatile organic compounds (VOC) content : 30,69 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None reasonably foreseeable.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid moisture. Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of CO<sub>2</sub>. Evolution of CO<sub>2</sub> in closed containers causes overpressure and produces a risk of bursting.

### 10.4 Conditions to avoid

Conditions to avoid : Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions. Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.

### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

Thermal decomposition : Not applicable

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation

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- method
- Acute toxicity (other routes of administration) : Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition., Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.
- Skin corrosion/irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin., The product may be absorbed through the skin.
- Further information : The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

### Components:

#### **hexamethylene-di-isocyanate :**

- Acute oral toxicity : LD50: 746 mg/kg, Rat
- Acute dermal toxicity : LD50: 599 mg/kg, Rabbit
- Skin corrosion/irritation : Rabbit, Result: Corrosive, OECD Test Guideline 404, 4 h
- Serious eye damage/eye irritation : Rabbit, Result: Corrosive, OECD Test Guideline 405, 30 s

## SECTION 12: Ecological information

### 12.1 Toxicity

- Toxicity to fish :  
Remarks:  
No data is available on the product itself.

- Toxicity to fish  
hexamethylene-di-isocyanate : LC50: 22 mg/l  
Exposure time: 96 h
- Species: Fish

### 12.2 Persistence and degradability

- Biodegradability : No data available

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### 12.3 Bioaccumulative potential

Bioaccumulation : No data available

### 12.4 Mobility in soil

Mobility : No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Additional ecological information : The product contains dangerous substances for the environment (see chapter no 3).  
The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Disposal together with normal waste is not allowed. Special disposal required according to local regulations.  
Must be incinerated.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
The following Waste Codes are only suggestions:150110\*

## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 1263

IMDG : UN 1263

IATA : UN 1263

### 14.2 Proper shipping name

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|             |                        |
|-------------|------------------------|
| <b>ADR</b>  | PAINT RELATED MATERIAL |
| <b>IMDG</b> | PAINT RELATED MATERIAL |
| <b>IATA</b> | Paint related material |

### 14.3 Transport hazard class(es)

|             |   |   |
|-------------|---|---|
| <b>ADR</b>  | : | 3 |
| <b>IMDG</b> | : | 3 |
| <b>IATA</b> | : | 3 |

### 14.4 Packing group

#### **ADR**

|                              |   |     |
|------------------------------|---|-----|
| Packing group                | : | III |
| Classification Code          | : | F1  |
| Hazard Identification Number | : | 30  |
| Labels                       | : | 3   |

#### **IMDG**

|               |   |         |
|---------------|---|---------|
| Packing group | : | III     |
| Labels        | : | 3       |
| EmS Code      | : | F-E,S-E |

#### **IATA**

|               |   |     |
|---------------|---|-----|
| Packing group | : | III |
| Labels        | : | 3   |

### 14.5 Environmental hazards

#### **ADR**

|                           |   |    |
|---------------------------|---|----|
| Environmentally hazardous | : | no |
|---------------------------|---|----|

#### **IMDG**

|                  |   |    |
|------------------|---|----|
| Marine pollutant | : | no |
|------------------|---|----|

#### **IATA**

|                           |   |    |
|---------------------------|---|----|
| Environmentally hazardous | : | no |
|---------------------------|---|----|

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### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Banned and/or restricted

|            |                             |
|------------|-----------------------------|
| 64742-95-6 | Hydrocarbons, C9, aromatics |
|------------|-----------------------------|

MAL-Code-Number : 5-5 (1993)  
1.418.061-m3 air/10 g

German storage class (TRGS 510) : 3: Flammable liquids

Risk classification according to VbF : Exempt  
see user defined free text

Water contaminating class (Germany) : water endangering  
VWVWS A4

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.  
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

### 15.2 Chemical safety assessment

No data is available on the product itself.

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### SECTION 16: Other information

#### Full text of H-Statements referred to under sections 2 and 3.

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                      |
| H226   | Flammable liquid and vapour.   |
| H302   | Harmful if swallowed.  |
| H304   | May be fatal if swallowed and enters airways.                              |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H319   | Causes serious eye irritation.   |
| H331   | Toxic if inhaled.  |
| H332   | Harmful if inhaled.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335   | May cause respiratory irritation.  |
| H336   | May cause drowsiness or dizziness.   |
| H411   | Toxic to aquatic life with long lasting effects.                           |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.