

Hexyl isothiocyanate Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/15/2019 Version: 1.0

| SECTION 1: Identification of the substa   | nce/mixture and of the company/undertaking   |
|---|--|
| 1.1. Product identifier   |  |
| Product form  | : Substance  |
| Substance name  | : Hexyl isothiocyanate   |
| IUPAC name  | : 1-Isothiocyanatohexane   |
| EC-No.  | : 224-549-2  |
| CAS-No.   | : 4404-45-9  |
| Product code  | : 12971778   |
| Formula   | : C7H13NS  |
| Product group   | : Raw material   |
| 1.2. Relevant identified uses of the substance  | e or mixture and uses advised against  |
| 1.2.1. Relevant identified uses   |  |
| Main use category   | : Laboratory use,Industrial use,Professional use   |
| Industrial/Professional use spec  | : For professional use only  |
| 1.2.2. Uses advised against   |  |
| No additional information available   |  |
| 1.3. Details of the supplier of the safety data   | sheet  |
| Supplier  |  |
| Scafell Organics<br>Molekula Ltd  |  |
| Lingfield Way   |  |
| Darlington - England<br>T +44 (0) 1949 823777 / +44 (0) 7590 545705                     |  |
| info@molekula.com / kbowen@molekula.com - www.  | molekula.com   |
| 1.4. Emergency telephone number   |  |
| Emergency number : +  | 44 (0) 7590 545705   |
|   |  |
| SECTION 2: Hazards identification<br>2.1. Classification of the substance or mixtu      | ro   |
|   |  |
| Classification according to Regulation (EC) No. 12<br>Acute toxicity (oral), Category 3 | H301   |
| Acute toxicity (dermal), Category 3   | H311   |
| Acute toxicity (inhal.), Category 3   | H331   |
| Skin corrosion/irritation, Category 2   | H315   |
| Serious eye damage/eye irritation, Category 2   | H319   |
| Specific target organ toxicity — Single exposure, Cate                                  |  |
| Respiratory tract irritation  |  |
| Full text of H statements : see section 16  |  |
| Adverse physicochemical, human health and envi  | ironmental effects   |
| No additional information available   |  |
| 2.2. Label elements   |  |
| Labelling according to Regulation (EC) No. 1272/2                                       | 2008 [CLP]   |
| Hazard pictograms (CLP)   |  |
|   |  |
|   |  |
|   |  |
|   | GHS06  |
| Signal word (CLP)   | : Danger   |
| Hazard statements (CLP)   | : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.   |
| ( )   | H315 - Causes skin irritation.   |
|   | H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.  |
| Precautionary statements (CLP)  | : P260 - Do not breathe mist, spray, vapours.  |
| (OLI)   | P280 - Wear protective clothing, eye protection, face protection, protective gloves.   |
|   | P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER.  |
|   | P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove<br>contact lenses, if present and easy to do. Continue rinsing. |
|   | P308+P311 - IF exposed or concerned: Call a POISON CENTER.   |
|   | · · · · · · · · · · · · · · · · · · ·  |

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2.3. Other hazards This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

| SECTION 3: Composition/information on ingredients<br>3.1. Substances |   |     |  |
|--|---|-----|--|
| Name   | Product identifier                        | %   |  |
| Hexyl isothiocyanate   | (CAS-No.) 4404-45-9<br>(EC-No.) 224-549-2 | 100 |  |
| Full text of H-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                | : If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.  |
| First-aid measures after inhalation       | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable<br>for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties<br>persist : Get medical advice/attention. |
| First-aid measures after skin contact     | : After contact with skin, take off immediately all contaminated clothing, and wash<br>immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation<br>persists, consult a doctor.                        |
| First-aid measures after eye contact      | : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.<br>Continue rinsing. If eye irritation persists: Get medical advice/attention.  |
| First-aid measures after ingestion        | : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.   |
| 4.2. Most important symptoms and effects, |   |
| Symptoms/effects after inhalation         | : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. Toxic if inhaled. More severe symptoms are also possible.   |
| Symptoms/effects after skin contact       | : Could cause toxic effects if inhaled or absorbed through skin. May cause skin irritation.<br>Redness, pain. More severe symptoms are also possible.   |
| Symptoms/effects after eye contact        | : May cause severe irritation. Blurred vision. redness, itching, tears. stinging. More severe<br>symptoms are also possible.  |
| Symptoms/effects after ingestion          | : Swallowing a small quantity of this material will result in serious health hazard. Symptoms<br>of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More<br>severe symptoms are also possible.                 |
|   |   |

4.3. Indication of any immediate medical attention and special treatment needed Immediately call a POISON CENTER/doctor.

| SECTION 5: Firefighting measures                 |  |
|--|--|
| 5.1. Extinguishing media                         |  |
| Suitable extinguishing media                     | : Foam. Dry powder. Carbon dioxide. Water spray. Sand.   |
| Unsuitable extinguishing media                   | : Do not use a heavy water stream.   |
| 5.2. Special hazards arising from the substa     |  |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.  |
| 5.3. Advice for firefighters                     |  |
| Precautionary measures fire                      | : Keep container tightly closed and away from heat, sparks and flame. Keep away from<br>combustible materials.   |
| Firefighting instructions                        | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any<br>chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting                   | : Do not enter fire area without proper protective equipment, including respiratory protection.  |
| Other information                                | : Warn all persons of toxic hazard.  |

| SECTION 6: Accidental release measures  |  |  |
|---|--|--|
| 6.1. Personal precautions, protective equipr  | ment and emergency procedures  |  |
| General measures : Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapo or spray. No flames, no sparks. Eliminate all sources of ignition. |  |  |
| 6.1.1. For non-emergency personnel  |  |  |
| Protective equipment  | : Wear recommended personal protective equipment.  |  |
| Emergency procedures  | : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. |  |

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| : Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).      |  |
|---|--|
|   |  |
| : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and<br>chemically protective clothing.          |  |
| : Ventilate area.   |  |
|   |  |
| tify authorities if liquid enters sewers or public waters.  |  |
| nent and cleaning up  |  |
| : Collect spillage. Contain the spilled material by bunding.  |  |
| : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.<br>Try to stop release if without risk. |  |
|   |  |

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

| SECTION 7: Handling and storage               |  |
|---|--|
| 7.1. Precautions for safe handling            |  |
| Precautions for safe handling                 | : Avoid formation of vapours. Provide local exhaust or general room ventilation.   |
| Hygiene measures                              | : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. |
| 7.2. Conditions for safe storage, including a | ny incompatibilities   |
| Technical measures                            | : Ensure adequate ventilation, especially in confined areas.   |
| Storage conditions                            | : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use. Moisture sensitive. Store contents under inert gas.   |
| Incompatible products                         | : Strong oxidisers. Strong bases.  |
| Incompatible materials                        | : Sources of ignition. Direct sunlight. Heat sources. Moisture. Water, humidity.   |
| Heat and ignition sources                     | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.   |
| Storage area                                  | : Store below 20 °C. Store in dry protected location to prevent any moisture contact.  |
| 7.3. Specific end use(s)                      |  |

No additional information available

# SECTION 8: Exposure controls/personal protection 8.1. Control parameters No additional information available 8.2. Exposure controls Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

### Personal protective equipment:

Avoid all unnecessary exposure.

| Hand protection:  |              |                   |                |             |          |
|---|--------------|-------------------|----------------|-------------|----------|
| The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374 |              |                   |                |             |          |
| Туре  | Material     | Permeation        | Thickness (mm) | Penetration | Standard |
| Disposable gloves   | Butyl rubber | 6 (> 480 minutes) | 0.11           |             | EN 374   |
| Eye protection:   |              |                   |                |             |          |

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes.

| Туре                        | Use              | Characteristics                                   | Standard |
|-----------------------------|------------------|---|----------|
| Safety goggles, Face shield | Droplet, vapours | tightly fitting safety goggles, With side shields | EN 166   |

### Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

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| Туре   | Standard |
|--|----------|
| Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product  | EN 14605 |
| Respiratory protection:  |          |
| Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended |          |

| Device                                   | Filter type | Condition   | Standard |
|--|-------------|---|----------|
| Air-Purifying Respirator (APR), reusable | ABEK        | Moist condition, Mist formation,<br>Protection for Liquid particles,<br>Vapour protection | EN 14387 |

# Other information:

Do not eat, drink or smoke during use.

| SECTION 9: Physical and chemical p         | properties                   |
|--|------------------------------|
| 9.1. Information on basic physical and c   |                              |
| Physical state                             | : Liquid                     |
| Appearance                                 | : Clear.                     |
| Molecular mass                             | : 143.25 g/mol               |
| Colour                                     | : Colourless to pale yellow. |
| Odour                                      | : No data available.         |
| Odour threshold                            | : No data available          |
| pН   | : No data available          |
| Relative evaporation rate (butylacetate=1) | : No data available          |
| Melting point                              | : No data available          |
| Freezing point                             | : No data available          |
| Boiling point                              | : 136 - 138 °C lit.          |
| Flash point                                | : 91 °C closed cup.          |
| Auto-ignition temperature                  | : No data available          |
| Decomposition temperature                  | : No data available          |
| Flammability (solid, gas)                  | : Non flammable.             |
| Vapour pressure                            | : No data available          |
| Relative vapour density at 20 °C           | : No data available          |
| Relative density                           | : 0.929 g/cm3                |
| Solubility                                 | : No data available          |
| Log Pow                                    | : No data available          |
| Viscosity, kinematic                       | : No data available          |
| Viscosity, dynamic                         | : No data available          |
| Explosive properties                       | : No data available          |
| Oxidising properties                       | : No data available          |
| Explosive limits                           | : No data available          |
| 9.2. Other information                     |                              |

No additional information available

| SECTION 10: Stability and reactivity   |
|--|
| 10.1. Reactivity   |
| The product is non-reactive under normal conditions of use, storage and transport.   |
| 10.2. Chemical stability   |
| Stable under recommended handling and storage conditions (see section 7).  |
| 10.3. Possibility of hazardous reactions   |
| No dangerous reactions known under normal conditions of use.   |
| 10.4. Conditions to avoid  |
| Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Moisture. Water, humidity. |
| 10.5. Incompatible materials   |
| Strong oxidizers. Strong bases.  |
| 10.6. Hazardous decomposition products   |
| No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.       |

Sulphur oxides.

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| SECTION 11: Toxicological information                  | n   |
|--|---|
| 11.1. Information on toxicological effects             |   |
| Acute toxicity (oral)                                  | : Oral: Toxic if swallowed.   |
| Acute toxicity (dermal)                                | : Dermal: Toxic in contact with skin.                               |
| Acute toxicity (inhalation)                            | : Inhalation: Toxic if inhaled.                                     |
| Skin corrosion/irritation                              | : Causes skin irritation.   |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Serious eye damage/irritation                          | : Causes serious eye irritation.                                    |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Respiratory or skin sensitisation                      | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Germ cell mutagenicity                                 | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Carcinogenicity  | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Reproductive toxicity                                  | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| STOT-single exposure                                   | : May cause respiratory irritation.                                 |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| STOT-repeated exposure                                 | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Aspiration hazard                                      | : Not classified  |
| Additional information                                 | : Based on available data, the classification criteria are not met  |
| Potential adverse human health effects and<br>symptoms | : Based on available data, the classification criteria are not met. |

| SECTION 12: Ecological information   |                                   |  |
|--|-----------------------------------|--|
| 12.1. Toxicity   |                                   |  |
| Acute aquatic toxicity :   | Not classified                    |  |
| Chronic aquatic toxicity :   | Not classified                    |  |
| 12.2. Persistence and degradability  |                                   |  |
| Hexyl isothiocyanate (4404-45-9)   |                                   |  |
| Persistence and degradability  | No data available.                |  |
| 12.3. Bioaccumulative potential  |                                   |  |
| Hexyl isothiocyanate (4404-45-9)   |                                   |  |
| Bioaccumulative potential  | No data available.                |  |
| 12.4. Mobility in soil   |                                   |  |
| No additional information available  |                                   |  |
| 12.5. Results of PBT and vPvB assessment   |                                   |  |
| Hexyl isothiocyanate (4404-45-9)   |                                   |  |
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |                                   |  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |                                   |  |
| 12.6. Other adverse effects  |                                   |  |
| Additional information :   | Avoid release to the environment. |  |
|  |                                   |  |

| SECTION 13: Disposal considerations        |   |
|--|---|
| 13.1. Waste treatment methods              |   |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials                  | : Avoid release to the environment. Hazardous waste due to toxicity.      |
|  |   |

| SECTION 14: Transport information |                       |      |      |      |
|-----------------------------------|-----------------------|------|------|------|
| In accordance with ADR / RID      | ) / IMDG / IATA / ADN |      |      |      |
| ADR                               | IMDG                  | ΙΑΤΑ | ADN  | RID  |
| 14.1. UN number                   |                       |      |      |      |
| 2810                              | 2810                  | 2810 | 2810 | 2810 |
|                                   |                       |      |      |      |

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|   | . ,  | 5 ( )  |  |  |
|---|--|--|--|--|
| 14.2. UN proper shippin   | g name   |  |  |  |
| TOXIC LIQUID, ORGANIC,<br>N.O.S.  | TOXIC LIQUID, ORGANIC,<br>N.O.S.   | Toxic liquid, organic, n.o.s.  | TOXIC LIQUID, ORGANIC,<br>N.O.S.   | TOXIC LIQUID, ORGANIC,<br>N.O.S.   |
| Transport document description  |  |  |  | ·  |
| UN 2810 TOXIC LIQUID,<br>ORGANIC, N.O.S. (Hexyl<br>isothiocyanate), 6.1, III, (E) | UN 2810 TOXIC LIQUID,<br>ORGANIC, N.O.S. (Hexyl<br>isothiocyanate), 6.1, III | UN 2810 Toxic liquid,<br>organic, n.o.s. (Hexyl<br>isothiocyanate), 6.1, III | UN 2810 TOXIC LIQUID,<br>ORGANIC, N.O.S. (Hexyl<br>isothiocyanate), 6.1, III | UN 2810 TOXIC LIQUID,<br>ORGANIC, N.O.S. (Hexyl<br>isothiocyanate), 6.1, III |
| 14.3. Transport hazard o  | class(es)  |  | _  |  |
| 6.1   | 6.1  | 6.1  | 6.1  | 6.1  |
| 6   | 6  | 6  | 6  | 6  |
| 14.4. Packing group   |  |  | 1  |  |
|   |  |  |  |  |
| 14.5. Environmental haz   |  |  |  |  |
|   |  |  |  |  |
| Dangerous for the environment : No  | Dangerous for the<br>environment : No<br>Marine pollutant : No               | Dangerous for the environment : No   | Dangerous for the environment : No   | Dangerous for the environment : No   |
| No supplementary informatio   | n available  |  | 1  |  |
| 14.6. Special precautions   | s for user   |  |  |  |
| Overland transport  |  |  |  |  |
| Classification code (ADR)   | : T1   |  |  |  |
| Special provisions (ADR)  |  | 74, 614  |  |  |
| Limited quantities (ADR)  | : 51   |  |  |  |
| Excepted quantities (ADR)   | : E'   |  |  |  |
| Packing instructions (ADR)  |  |  |  |  |
| Mixed packing provisions (AD<br>Portable tank and bulk contain                    |  | P19  |  |  |
| (ADR)<br>Portable tank and bulk contain<br>(ADR)                                  | ner special provisions :TF   | P1, TP28   |  |  |
| Tank code (ADR)   | : L4   | IBH  |  |  |
| Tank special provisions (ADR  |  | J15, TE19  |  |  |
| Vehicle for tank carriage   | ,<br>: A <sup>-</sup>  |  |  |  |
| Transport category (ADR)  | : 2  |  |  |  |
| Special provisions for carriage   | e - Packages (ADR) : V <sup>2</sup>  | 12   |  |  |
| Special provisions for carriage unloading and handling (ADR                       |  | V13, CV28  |  |  |
| Special provisions for carriage   |  |  |  |  |
| Hazard identification number  | (Kemler No.) : 60  | )  |  |  |
| Orange plates   | :  | 60<br>2810   |  |  |
| Tunnel restriction code (ADR)   | ) : E  |  |  |  |
| EAC code  | : 2>   | <  |  |  |
| APP code  | : B  |  |  |  |
| Transport by sea  |  |  |  |  |
| Special provisions (IMDG)   | : 22   | 23, 274  |  |  |
| Packing instructions (IMDG)   |  | 001, LP01  |  |  |
| IBC packing instructions (IMD   |  | C03  |  |  |
| Tank instructions (IMDG)  | : T7   |  |  |  |
| Tank special provisions (IMD)   |  | P1, TP28   |  |  |
| EmS-No. (Fire)<br>EmS-No. (Spillage)  | : F-<br>: S-   |  |  |  |
|   |  |  |  |  |

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| Stowage category (IMDG)  | : A   |
|--|---|
| Stowage and handling (IMDG)  | : SW2   |
| Properties and observations (IMDG)   | : Toxic if swallowed, by skin contact or by inhalation. |
| Air transport  |   |
| PCA Excepted quantities (IATA)   | : E1  |
| PCA Limited quantities (IATA)  | : Y642  |
| PCA limited quantity max net quantity (IATA)                               | : 2L  |
| PCA packing instructions (IATA)  | : 655   |
| PCA max net quantity (IATA)  | : 60L   |
| CAO packing instructions (IATA)  | : 663   |
| CAO max net quantity (IATA)  | : 220L  |
| Special provisions (IATA)  | : A3, A4, A137  |
| ERG code (IATA)  | : 6L  |
| Inland waterway transport  |   |
| Classification code (ADN)  | : T1  |
| Special provisions (ADN)   | : 274, 614, 802   |
| Limited quantities (ADN)   | : 5 L   |
| Excepted quantities (ADN)  | : E1  |
| Carriage permitted (ADN)   | :T  |
| Equipment required (ADN)   | : PP, EP, TOX, A  |
| Ventilation (ADN)  | : VE02  |
| Number of blue cones/lights (ADN)  | : 0   |
| Rail transport   |   |
| Classification code (RID)  | : T1  |
| Special provisions (RID)   | : 274, 614  |
| Excepted quantities (RID)  | : E1  |
| Packing instructions (RID)   | : P001, IBC03, LP01, R001                               |
| Mixed packing provisions (RID)   | : MP19  |
| Portable tank and bulk container instructions (RID)                        | : T7  |
| Portable tank and bulk container special provisions (RID)                  | : TP1, TP28   |
| Tank codes for RID tanks (RID)   | : L4BH  |
| Special provisions for RID tanks (RID)                                     | : TU15  |
| Transport category (RID)   | : 2   |
| Special provisions for carriage – Packages (RID)                           | : W12   |
| Special provisions for carriage - Loading,<br>unloading and handling (RID) | : CW13, CW28, CW31                                      |
| Colis express (express parcels) (RID)                                      | : CE8   |
| Hazard identification number (RID)   | : 60  |
| 14.7. Transport in bulk according to Annex I                               | I of Marpol and the IBC Code                            |

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

No REACH Annex XVII restrictions Hexyl isothiocyanate is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

## 15.1.2. National regulations

## Germany

| : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) |
|--|
|  |
| : The substance is not listed                                      |
| : The substance is not listed                                      |
| : The substance is not listed                                      |
|  |

giftige stoffen – Borstvoeding

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| NIET-limitatieve lijst van voor de voortplanting<br>giftige stoffen – Vruchtbaarheid | : The substance is not listed   |
|--|---|
| NIET-limitatieve lijst van voor de voortplanting<br>giftige stoffen – Ontwikkeling   | : The substance is not listed   |
| Denmark  |   |
| Class for fire hazard  | : Class III-1   |
| Store unit   | : 50 liter  |
| Classification remarks   | : Flammable according to the Danish Ministry of Justice; Emergency management<br>guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations  | : Young people below the age of 18 years are not allowed to use the product   |
|  | Pregnant/breastfeeding women working with the product must not be in direct contact with the product  |
|  |   |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

| SECTION 16: Other information     |   |  |
|-----------------------------------|---|--|
| Data sources                      | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16<br>December 2008 on classification, labelling and packaging of substances and mixtures, amending and<br>repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |  |
| Other information                 | : None.   |  |
| Full text of H- and EUH-statement | s:  |  |
| Acute Tox. 3 (Dermal)             | Acute toxicity (dermal), Category 3   |  |
| Acute Tox. 3 (Inhalation)         | Acute toxicity (inhal.), Category 3   |  |
| Acute Tox. 3 (Oral)               | Acute toxicity (oral), Category 3   |  |
| 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  |  |
| H301                              | Toxic if swallowed.   |  |
| H311                              | Toxic in contact with skin.   |  |
| H315                              | Causes skin irritation.   |  |
| H319                              | Causes serious eye irritation.  |  |
| H331                              | Toxic if inhaled.   |  |
| H335                              | May cause respiratory irritation.   |  |

SDS EU (REACH Annex II)

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.