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## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.05.2024

Version number 18 (replaces version 17)

Revision: 13.05.2024

| SECTION 1  | : Identification of the substance/mixture and of the company/undertaking  |
|--|---|
| 1.1 Product ide<br>Molecular form<br>Structure form<br>Trade name: <u>n</u><br>SDS number:<br>CAS Number:<br>110-54-3  | mula: C6 H14<br>nula: C H3 - (C H2) 4 - C H3<br><b>Hexane 95%</b>   |
| <ul> <li>EC number:<br/>203-777-6</li> <li>Index number:<br/>601-037-00-0</li> <li>Registration nu<br/>1.2 Relevant id<br/>For professional<br/>Life cycle stage<br/>IS Use at indu</li> </ul>   | umber 01-2119480412-44<br>lentified uses of the substance or mixture and uses advised against<br>al users only<br>es  |
| <ul> <li>1.3 Details of t</li> <li>Manufacturer/<br/>CARLO ERBA<br/>Chaussée du V<br/>Parc d'Affaires<br/>27106 VAL DE<br/>Téléphone: +3.<br/>Télécopie: +33</li> <li>Further inform<br/>Q.A / Normativ<br/>email: MSDS_</li> <li>1.4 Emergency</li> </ul> | RÉAGENTS<br>fexin<br>5 des Portes - BP616<br>5 REUIL Cedex<br>3 (0)2 32 09 20 00<br>8 (0)2 32 09 20 20<br>mation obtainable from:                               |
| SECTION 2  | : Hazards identification  |
| Classification   | ion of the substance or mixture<br>according to Regulation (EC) No 1272/2008<br>502 flame   |
| Flam. Liq. 2   | H225 Highly flammable liquid and vapour.  |
| GHS  | 508 health hazard   |
| Repr. 2<br>STOT RE 2   | H361f Suspected of damaging fertility.<br>H373 May cause damage to the nervous system through prolonged or repeated<br>exposure. Route of exposure: Inhalation. |
| Asp. Tox. 1  | H304 May be fatal if swallowed and enters airways.<br>(Contd. on page 2)  |



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|---------------------------|--|--------------------------------|
| Trade name: n-Hexa        | ne 95%   |                                |
|                           |  | (Contd. of page 1              |
| AV.                       |  |                                |
| GHS09                     | environment  |                                |
|                           |  |                                |
| Aquatic Chronic           | 2 H411 Toxic to aquatic life with long lasting effects.                                    |                                |
|                           |  |                                |
| GHS0                      | 7  |                                |
|                           |  |                                |
| Skin Irrit. 2             | H315 Causes skin irritation.   |                                |
| STOT SE 3                 | H336 May cause drowsiness or dizziness.  |                                |
|                           |  |                                |
| · 2.2 Label elemen        | ts<br>ing to Regulation (EC) No 1272/2008  |                                |
|                           | classified and labelled according to the CLP regulation.                                   |                                |
| · Hazard pictogram        |  |                                |
|                           |  |                                |
| JUL I                     |  |                                |
| <u>**</u>                 |  |                                |
| GHS02 GHS0                | 07 GHS08 GHS09   |                                |
| 01502 0150                | 0/ 00508 00509   |                                |
| • Signal word Dan         | ger  |                                |
| · Hazard-determin         | ing components of labelling:   |                                |
| n-Hexane                  | ing components of moening.   |                                |
| • Hazard statemen         | ts   |                                |
|                           | nmable liquid and vapour.  |                                |
| H315 Causes ski           |  |                                |
|                           | of damaging fertility.   |                                |
|                           | e drowsiness or dizziness.<br>e damage to the nervous system through prolonged or repeated | ernosure Route of ernosure     |
| Inhalation                |  | exposure. Route of exposure    |
|                           | al if swallowed and enters airways.  |                                |
|                           | quatic life with long lasting effects.   |                                |
| · Precautionary st        |  |                                |
| P210                      | Keep away from heat, hot surfaces, sparks, open flames ar smoking.                         | nd other ignition sources. No  |
| P241                      | Use explosion-proof [electrical/ventilating/lighting] equipme                              | ent.                           |
| P280                      | <i>Wear protective gloves / eye protection / face protection.</i>                          |                                |
| P303+P361+P3              | 53 IF ON SKIN (or hair): Take off immediately all contamina                                | tted clothing. Rinse skin with |
|                           | water [or shower].   | 11 0 1 1                       |
| P304 + P340               | <i>IF INHALED: Remove person to fresh air and keep comforta</i>                            |                                |
| P403+P233                 | Store in a well-ventilated place. Keep container tightly close                             | a.                             |
| · 2.3 Other hazard        | s<br>nd vPvB assessment  |                                |
| • <b>PBT:</b> Not applied |  |                                |
|                           |  |                                |

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Trade name: n-Hexane 95%

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**SECTION 3: Composition/information on ingredients** 

· 3.1 Substances

• CAS No. Description CAS: 110-54-3 n-Hexane

· Identification number(s)

• EC number: 203-777-6

· Index number: 601-037-00-0

• Specific concentration limits STOT RE 2; H373:  $C \ge 5 \%$ 

#### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

*Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse. If skin irritation continues, consult a doctor.* 

• After eye contact:

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Seek immediate medical advice.* 

• *After swallowing:* Do not induce vomiting; call for medical help immediately. Call for a doctor immediately.

*Rinse out mouth and then drink plenty of water.* 

Call a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed Nausea

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- *Suitable extinguishing agents:* CO2 or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet.
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- Protective equipment: Do not inhale gases in case or fire or combustion.
- · Additional information Keep receptacles cool with water spray.

## **SECTION 6:** Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Keep away any ignition source.

Wear protective equipment. Keep unprotected persons away.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Ensure adequate ventilation

#### 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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| Trade name: n-Hexane 95%  |  |   |
| Prevent seepage into sewag<br>In case of seepage into the<br>6.3 Methods and material j<br>Collect the liquid with vac<br>(diatomite, acid binders, un<br>Ensure adequate ventilation<br>Dispose contaminated mate<br>6.4 Reference to other sect<br>See Section 7 for informatic | ich sewage system or any water course.<br>e system, workpits and cellars.<br>ground inform responsible authorities.<br>for containment and cleaning up:<br>wum in a suitable container and absorb the remain<br>iversal binders, etc).<br>n.<br>rial as waste according to section 13.<br>fons<br>on on safe handling.<br>on on personal protection equipment. | (Contd. of page 3)<br>nder with a porous material |
| SECTION 7: Handlin  |  |   |
| Prevent formation of aerose<br>Wear suitable respiratory p  | ightly closed receptacles.<br>irect sunlight.<br>paustion at the workplace.<br>uct in closed systems or under local exhaust.<br>ols.<br>rotective device when decanting larger quantities with<br>with nitrogen or other inert gases.  | hout extractor facilities.                        |
| Keep ignition so  | urces away - Do not smoke.   |   |
| Protect from heat.<br>Protect against electrostation<br>Use explosion-proof appare<br>Keep respiratory protective   | utus / fittings and spark-proof tools.   |   |
| Storage:<br>Requirements to be met by<br>Store in a cool location.<br>Prevent any seepage into th<br>Use only receptacles specif<br>Information about storage<br>Further information about<br>Keep receptacle tightly sea<br>Store in cool, dry condition                         | cally permitted for this substance/product.<br>in one common storage facility: Not required.<br>storage conditions:<br>ed.   |   |
| SECTION 8: Exdosur  | e controls/personal protection   |   |
| · 8.1 Control parameters  | es that require monitoring at the workplace:   |   |

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| DNELs  |   | (Contd. of page  |
|--|---|--|
|  | -54-3 n-Hexane  |  |
| Dermal   | DNEL (workers-systemic chronic effects  | ) 11 mg/kg   |
| Inhalative   | DNEL (workers-systemic chronic effects  |  |
|  | <b>I information:</b> The lists valid during the n  | 0  |
| 8.2 Expose<br>Appropria<br>Individual<br>General part<br>The usual<br>Keep away<br>Immediate<br>Wash hand<br>Store prote<br>Do not inh<br>Avoid come<br><b>Respirator</b><br>Use suitab<br>Use suitab<br>The selecte<br>Hand prote<br>The select | ure controls<br>te engineering controls No further data;<br>I protection measures, such as personal p<br>rotective and hygienic measures:<br>precautionary measures are to be adhere<br>w from foodstuffs, beverages and feed.<br>Hy remove all soiled and contaminated cle<br>ds before breaks and at the end of work.<br>ective clothing separately.<br>tale gases / fumes / aerosols.<br>tale dust / smoke / mist.<br>tact with the eyes and skin.<br>ty protection:<br>ele respiratory protective device only when<br>longer exposure use self-contained respi<br>ed respiratory protection must comply with<br>tection<br>ted protective gloves have to satisfy the<br>EN 374 derived from it. | see section 7.<br>protective equipment<br>d to when handling chemicals.<br>othing<br>n aerosol or mist is formed.<br>tion use respiratory filter device. In case of intensive<br>ratory protective device. |
| degradatio   | on<br>Protective gloves   |  |
| Material of  | ct contact with the chemical/ the product/<br><b>f gloves</b>   | the preparation by organisational measures.  |
| and varies<br><b>Penetratio</b>  | from manufacturer to manufacturer.<br>In time of glove material   |  |
| observed.  | break trough time has to be found out b<br>ermanent contact gloves made of the foll   | y the manufacturer of the protective gloves and has to owing materials are suitable:   |
| The penetr<br>Fluorocar  | ration time has to be at least 480 minutes<br>bon rubber (Viton)<br>uded thickness of the material: $\geq 0.4$ mm   |  |
| Nitrile rub  |   |  |
|  | ided thickness of the material: $\geq 0.35$ mm  |  |
|  | -   | (Contd. on pag   |



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· Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing

· Environmental exposure controls

The product must not be released into the environment.

In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· Risk management measures Keep good industrial hygiene.

## **SECTION 9: Physical and chemical properties**

| • 9.1 Information on basic physical and chemical p   | properties  |
|--|---|
| · Molecular weight                                   | 86 g  |
| · Physical state                                     | Fluid   |
| · Colour:  | Colourless  |
| · Odour:   | Characteristic  |
| · Odour threshold:                                   | Not determined.   |
| · Melting point/freezing point:                      | -95 °C  |
| · Boiling point or initial boiling point and boiling |   |
| range  | 69 °C   |
| · Flammability                                       | Highly flammable.   |
| · Lower and upper explosion limit                    |   |
| · Lower:   | 1.2 Vol %   |
| · Upper:   | 7.4 Vol %   |
| Flash point:   | -26 °C  |
| Auto-ignition temperature:                           | 240 °C  |
| Decomposition temperature:                           | Not determined.   |
| · Viscosity:   |   |
| · Kinematic viscosity                                | Not determined.   |
| Dynamic at 20 °C:                                    | 0.5 mPas  |
| Solubility   |   |
| water at 20 °C:                                      | 0.1  g/l  |
| Partition coefficient n-octanol/water (log value)    | 4   |
| · Vapour pressure at 20 °C:                          | 160 hPa   |
| · Vapour pressure (2) at 50 °C:                      | 540 hPa   |
| · Vapour pressure at 50 °C:                          | 540 hPa   |
| • Density and/or relative density                    |   |
| · Density at 20 °C:                                  | $0.66 \ g/cm^3$   |
| · Relative density                                   | Not determined.   |
| · Vapour density                                     | Not determined.   |
| * ·  |   |
| • 9.2 Other information                              |   |
| · Appearance:<br>· Form:                             | Fluid   |
|  |   |
| · Important information on protection of health an   | ua di alta di a |
| environment, and on safety.                          | Not determined  |
| Ignition temperature:                                | Not determined.   |
| • Explosive properties:                              | Product is not explosive. However, formation of explosive air/vapour mixtures are possible.                     |
| · Organic solvents:                                  | 100.0 %   |
| · Solids content:                                    | 0.0 %   |



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|  |                                     | (Contd. of page |
|--|-------------------------------------|-----------------|
| Change in condition                        |                                     |                 |
| Evaporation rate                           | Not determined.                     |                 |
| Information with regard to physical hazard | classes                             |                 |
| • Explosives                               | Void                                |                 |
| Flammable gases                            | Void                                |                 |
| Aerosols                                   | Void                                |                 |
| • Oxidising gases                          | Void                                |                 |
| Gases under pressure                       | Void                                |                 |
| Flammable liquids                          | Highly flammable liquid and vapour. |                 |
| Flammable solids                           | Void                                |                 |
| Self-reactive substances and mixtures      | Void                                |                 |
| Pyrophoric liquids                         | Void                                |                 |
| Pyrophoric solids                          | Void                                |                 |
| Self-heating substances and mixtures       | Void                                |                 |
| Substances and mixtures, which emit flamm  | able                                |                 |
| gases in contact with water                | Void                                |                 |
| Oxidising liquids                          | Void                                |                 |
| Oxidising solids                           | Void                                |                 |
| · Organic peroxides                        | Void                                |                 |
| · Corrosive to metals                      | Void                                |                 |
| · Desensitised explosives                  | Void                                |                 |

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity See 10.3
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide, Carbon dioxide.

#### **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

| CAS: | 110-54-3 | n-Hexane |
|------|----------|----------|
|------|----------|----------|

| Oral       | LD50     | 16,000 mg/kg (rat) (OECD 401)    |
|------------|----------|----------------------------------|
| Dermal     | LD50     | >3,350 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/4 h | 259.3 mg/L (rat) (OECD 403)      |

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Irritating effect.

· Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Suspected of damaging fertility.

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Version number 18 (replaces version 17) Revision: 13.05.2024 Printing date 13.05.2024 Trade name: n-Hexane 95% (Contd. of page 7) · STOT-single exposure May cause drowsiness or dizziness. · STOT-repeated exposure May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation. · Aspiration hazard May be fatal if swallowed and enters airways. • Subacute to chronic toxicity: May afford troubles to the central nervous system in case of repeated exposure. Cumulative effects in case of repeated exposures. • 11.2 Information on other hazards • Endocrine disrupting properties Substance is not listed. **SECTION 12: Ecological information** · 12.1 Toxicity

• Aquatic toxicity:

CAS: 110-54-3 n-Hexane

EC50/48h 21.85 mg/l (Daphnia)

· 12.2 Persistence and degradability No further relevant information available.

· Method

- Ecological information Not available
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- Remark: Toxic for fish
- Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

#### **SECTION 13: Disposal considerations**

#### • 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.

• Waste disposal key:

The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.

2014/955/UE: Council Decision of 18 December 2014 amending the list of wastes contained in Decision 2000/532/EC.

Directive 2008/98/EC of the european parliament and of the council of 18 November 2008, in ist latest valid version.



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| European waste catalogue   |  |
| HP3 Flammable  |  |
| HP4 Irritant - skin irritation and eg  | ye damage  |
| HP5 Specific Target Organ Toxicit  | ty (STOT)/Aspiration Toxicity                              |
| HP10 Toxic for reproduction  |  |
| HP14 Ecotoxic  |  |
| same treatment of products.<br>Directive 94/62/EC of the Europea<br>packaging waste.<br><b>Recommendation:</b><br>Disposal must be made according to | d are to be disposed of in the same manner as the product. |
| SECTION 14: Transport info   | rmation  |
| • 14.1 UN number or ID number<br>• ADR/RID, IMDG, IATA   | UN1208   |
| 14.2 UN proper shipping name   |  |
| ADR/RID  | 1208 HEXANES, ENVIRONMENTALLY HAZARDOUS                    |
| · IMDG   | HEXANES, MARINE POLLUTANT                                  |
| · IATA   | Hexanes  |
| ADR/RID<br>Class<br>Label<br>IMDG  | 3 (F1) Flammable liquids.<br>3                             |
| Class<br>Label   | 3 Flammable liquids.<br>3                                  |
|  |  |
|  | 3 Flammable liquids.                                       |
| · Class  |  |
| Class<br>Label   | 3  |



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| 14.4 Packing group<br>ADR/RID, IMDG, IATA      | II  |
| 14.5 Environmental hazards:                    |   |
| Marine pollutant:                              | Symbol (fish and tree)  |
| Special marking (ADR/RID):                     | Symbol (fish and tree)  |
| 14.6 Special precautions for user              | Warning: Flammable liquids.   |
| Hazard identification number (Kemler code):    | 33  |
| EMS Number:                                    | F-E,S-D   |
| Stowage Category                               | Ε   |
| 14.7 Maritime transport in bulk according to I | 'MO   |
| instruments                                    | Not applicable.   |
| Transport/Additional information:              |   |
| ADR/RID  |   |
| Limited quantities (LQ)                        | 1L  |
| Excepted quantities (EQ)                       | Code: E2  |
|  | Maximum net quantity per inner packaging: 30 ml   |
|  | Maximum net quantity per outer packaging: 500 ml  |
| Transport category                             | 2   |
| Tunnel restriction code                        | D/E   |
| IMDG   |   |
| Limited quantities (LQ)                        | lL  |
| Excepted quantities (EQ)                       | Code: E2  |
|  | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| UN "Model Regulation":                         | UN 1208 HEXANES, 3, II, ENVIRONMENTALL<br>HAZARDOUS   |

## **SECTION 15: Regulatory information**

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

· SARA Section 355 (extremely hazardous substances)

Substance is not listed.

·SARA Section 313 (specific toxic chemical listings)

Substance is listed.

· Prop 65 - Chemicals known to cause cancer

Substance is not listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

 $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

Substance is not listed.

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| rade name: n-Hexane 95%   |   |                              |
|   |   | (Contd. of page 10)          |
| · LIST OF SUBSTANCES  | S SUBJECT TO AUTHORISATION (ANNEX XIV)  |                              |
| Substance is not listed.  |   |                              |
| · REGULATION (EC) No  | 1907/2006 ANNEX XVII Conditions of restriction: 3   |                              |
| electronic equipment – A  | U on the restriction of the use of certain hazardous sub<br>nnex II   | ostances in electrical and   |
| Substance is not listed.  |   |                              |
| · National regulations:   |   |                              |
| • Technical instructions (a   | ir):  |                              |
| Class Share in %  |   |                              |
| I 50-100  |   |                              |
| · Waterhazard class: Wate   | r hazard class 2 (Assessment by list): hazardous for water.   |                              |
| • Other regulations limita  | tions and prohibitive regulations   |                              |
| 660.0 g/l   | ions una promotive regulations  |                              |
| 100.00 %  |   |                              |
| • Substances of very high a   | concern (SVHC) according to REACH, Article 57   |                              |
| Substance is not listed.  |   |                              |
| · 15.2 Chemical safety asso   | essment: A Chemical Safety Assessment has been carried o  | out.                         |
|   | and shall not establish a legally valid contractual relations   | snip.                        |
| · Department issuing SDS.   |   |                              |
| <ul> <li>Date of previous version:</li> <li>Version number of previous</li> </ul>   |   |                              |
| · Abbreviations and acron   |   |                              |
| RCR : Risk Characterisation Ra  | atio  |                              |
| ADR: Accord relatif au transp<br>International Carriage of Dang   | port international des marchandises dangereuses par route (Europe<br>gerous Goods by Road)  | ean Agreement Concerning the |
| IMDG: International Maritime<br>IATA: International Air Transpo   |   |                              |
| GHS: Globally Harmonised Sys  | stem of Classification and Labelling of Chemicals   |                              |
|   | of Existing Commercial Chemical Substances<br>ce (division of the American Chemical Society)  |                              |
| DNEL: Derived No-Effect Level   |   |                              |
| LC50: Lethal concentration, 50<br>LD50: Lethal dose, 50 percent   |   |                              |
| -   |   |                              |
| PBT: Persistent, Bioaccumulati  | ) percent '   |                              |
| <i>PB1: Persistent, Bioaccumulati</i><br><i>SVHC: Substances of Very High</i><br><i>vPvB: very Persistent and very</i>  | ) percent<br>ive and Toxic<br>h Concern   |                              |
| SVHC: Substances of Very Higl<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va  | ) percent<br>ive and Toxic<br>h Concern<br>Bioaccumulative<br>lues  |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri  | ) percent<br>ive and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls – Category 2<br>itation – Category 2   |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –  | ) percent<br>ive and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls – Category 2<br>itation – Category 2<br>- Category 2   |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orgo<br>STOT RE 2: Specific target orgo  | ) percent<br>ive and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls - Category 2<br>itation - Category 2<br>- Category 2<br>an toxicity (single exposure) - Category 3<br>an toxicity (repeated exposure) - Category 2   |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orga<br>STOT RE 2: Specific target orga<br>Asp. Tox. 1: Aspiration hazard  | ) percent<br>ive and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls - Category 2<br>itation - Category 2<br>- Category 2<br>an toxicity (single exposure) - Category 3<br>an toxicity (repeated exposure) - Category 2   |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orga<br>STOT RE 2: Specific target orga<br>Asp. Tox. 1: Aspiration hazard<br>Aquatic Chronic 2: Hazardous  | Dercent<br>vive and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls - Category 2<br>itation - Category 2<br>- Category 2<br>an toxicity (single exposure) - Category 3<br>an toxicity (repeated exposure) - Category 2<br>- Category 1<br>to the aquatic environment - long-term aquatic hazard - Category 2  |                              |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orga<br>STOT RE 2: Specific target orga<br>Asp. Tox. 1: Aspiration hazard<br>Aquatic Chronic 2: Hazardous<br>Sources<br>Regulation (EC) No 190   | Dercent<br>we and Toxic<br>h Concern<br>Bioaccumulative<br>lues<br>ls - Category 2<br>itation - Category 2<br>- Category 2<br>an toxicity (single exposure) - Category 3<br>an toxicity (repeated exposure) - Category 2<br>- Category 1<br>to the aquatic environment - long-term aquatic hazard - Category 2<br>07/2006 of the European Parliament and of the Counc   | il of 18 December 2006,      |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va.<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orga<br>STOT RE 2: Specific target orga<br>Asp. Tox. 1: Aspiration hazard<br>Aquatic Chronic 2: Hazardous<br><b>Sources</b><br>Regulation (EC) No 190<br>REACH, in the latest value   | <ul> <li>percent</li> <li>percent</li> <li>we and Toxic</li> <li>h Concern</li> <li>Bioaccumulative</li> <li>lues</li> <li>ls - Category 2</li> <li>itation - Category 2</li> <li>- Category 2</li> <li>an toxicity (single exposure) - Category 3</li> <li>an toxicity (repeated exposure) - Category 2</li> <li>- Category 1</li> <li>to the aquatic environment - long-term aquatic hazard - Category 2</li> <li>07/2006 of the European Parliament and of the Counc</li> <li>d version.</li> </ul>  | -                            |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orgo<br>STOT RE 2: Specific target orgo<br>Asp. Tox. 1: Aspiration hazard<br>Aquatic Chronic 2: Hazardous<br><b>Sources</b><br>Regulation (EC) No 190<br>REACH, in the latest value<br>Regulation (EC) N° 1272,<br>the latest valid version. | <ul> <li>percent</li> <li>percent</li> <li>we and Toxic</li> <li>h Concern</li> <li>Bioaccumulative</li> <li>lues</li> <li>ls - Category 2</li> <li>tation - Category 2</li> <li>- Category 2</li> <li>an toxicity (single exposure) - Category 3</li> <li>an toxicity (repeated exposure) - Category 2</li> <li>- Category 1</li> <li>to the aquatic environment - long-term aquatic hazard - Category 2</li> <li>07/2006 of the European Parliament and of the Counced version.</li> <li>/2008 of the European Parliament and of the Council of 10</li> </ul> | -                            |
| SVHC: Substances of Very High<br>vPvB: very Persistent and very<br>ATE: Acute toxicity estimate va<br>Flam. Liq. 2: Flammable liquid<br>Skin Irrit. 2: Skin corrosion/irri<br>Repr. 2: Reproductive toxicity –<br>STOT SE 3: Specific target orgo<br>Asp. Tox. 1: Aspiration hazard<br>Aquatic Chronic 2: Hazardous<br><b>Sources</b><br>Regulation (EC) No 190<br>REACH, in the latest valia<br>Regulation (EC) N° 1272/   | <ul> <li>percent</li> <li>percent</li> <li>we and Toxic</li> <li>h Concern</li> <li>Bioaccumulative</li> <li>lues</li> <li>ls - Category 2</li> <li>tation - Category 2</li> <li>- Category 2</li> <li>an toxicity (single exposure) - Category 3</li> <li>an toxicity (repeated exposure) - Category 2</li> <li>- Category 1</li> <li>to the aquatic environment - long-term aquatic hazard - Category 2</li> <li>07/2006 of the European Parliament and of the Counced version.</li> <li>/2008 of the European Parliament and of the Council of 10</li> </ul> | -                            |



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Version number 18 (replaces version 17)

Revision: 13.05.2024

Trade name: n-Hexane 95%

ADR/RID, IMDG, IATA

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PubChem : an open chemistry database at the National Institutes of Health (NIH) ECHA : European CHemicals Agency GESTIS : Information system on hazardous substances of the German Social Accident Insurance

• \* Data compared to the previous version altered.

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Revision: 13.05.2024

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| Annex: Exposur            | e scenario 1  |                     |
|---------------------------|---|---------------------|
| Short title of the exp    | osure scenario Substance manufacturing                                    |                     |
| Sector of Use Indust      |   |                     |
| Process category          |   |                     |
|                           | roduction or refinery in closed process without likelihood of exposure    | or processes with   |
| equivalent containm       |   | -                   |
|                           | production or refinery in closed continuous process with occasional co    | ntrolled exposure   |
| or processes with eq      | uvalent containment conditions  | -                   |
| PROC3 Manufacti           | re or formulation in the chemical industry in closed batch processes      | s with occasional   |
| controlled exposure       | or processes with equivalent containment condition                        |                     |
|                           | roduction where opportunity for exposure arises                           |                     |
|                           | f substance or mixture (charging and discharging) at non-dedicated fac    |                     |
|                           | f substance or mixture (charging and discharging) at dedicated facilitie  | 25                  |
| PROC15 Use as lat         |   |                     |
| Environmental relea       |   |                     |
| ERC1 Manufacture          |   |                     |
| ERC2 Formulation          |   |                     |
|                           | tivities / processes covered in the Exposure Scenario                     |                     |
|                           | nnex to the Safety Data Sheet.  |                     |
| Conditions of use         |   |                     |
| According to direction    |   |                     |
|                           | on according to section 1.  |                     |
|                           | ncy 8hrs (full working shift).  |                     |
| Worker 8hrs (full wo      | rking snijt).   |                     |
| Physical parameters       | aical chamical managering in the Free sure Commission in the 1            | muon outing of 1    |
|                           | sical - chemical properties in the Exposure Scenario is based on the      | properties of the   |
| preparation.              |   |                     |
| Physical state Fluid      | aubotanes in the mixture Pau material                                     |                     |
|                           | substance in the mixture Raw material.                                    |                     |
|                           | <b>ne or activity</b> According to directions for use.                    | ale                 |
|                           | nditions Observe the general safety regulations when handling chemica     | <i>us</i> .         |
| Use only on hard gro      | nditions affecting environmental exposure                                 |                     |
|                           | the Safety Data Sheet (Accidental release measures).                      |                     |
|                           | nditions affecting worker exposure  |                     |
| Avoid contact with th     |   |                     |
|                           | e sun.<br>neasures against static discharge.                              |                     |
|                           | ces of ignition - No smoking.   |                     |
| Risk management m         |   |                     |
| Worker protection         | cusa, cs  |                     |
| Organisational protection | ective measures   |                     |
| Keep good industria       |   |                     |
| Deploy only trained       |   |                     |
|                           | are executed by specialists or authorised personnel only.                 |                     |
|                           | ion. This can be achieved by using a local exhaustion or general exhau    | st system. If these |
|                           | icient to keep the solvent vapour concentration below the workplace       |                     |
| adequate respiratory      |   |                     |
| Provide sufficient wa     |   |                     |
|                           | o skin diseases or other hypersensitivity reactions of the skin, should   | ld not handle the   |
| product.                  |   |                     |
|                           | t consist of textiles that exhibit dangerous melting behaviour in case of | fire.               |
| Technical protective      |   | ,                   |
|                           | oof electrical equipment.   |                     |
| 1 I                       | v 1 1   |                     |

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## Safety data sheet ing to Regulation (EC) No 1907/2006, Article 31

according to Regulation (EC) No 1907/2006, Article 31 Version number 18 (replaces version 17) Revision: 13.05.2024 Printing date 13.05.2024 Trade name: n-Hexane 95% (Contd. of page 13) Use product only in enclosed systems. Ensure that suitable extractors are available on processing machines Ensure good ventilation/exhaustion at the workplace. · Personal protective measures Do not inhale gases / fumes / aerosols. Avoid contact with the skin. The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Rubber gloves Solvent resistant protective clothing Tightly sealed goggles The usual precautionary measures are to be adhered to when handling chemicals. Detailed measures on hand protection according to Safety Data Sheet, section 8. *Use suitable respiratory protective device only when aerosol or mist is formed.* Filter A/P2 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. The selected respiratory protection must comply with standard EN 136/140/143/145/149. · Environmental protection measures • *Water* Do not allow to reach sewage system. • Soil Prevent contamination of soil. • Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet. · Disposal measures Disposal must be made according to official regulations. Ensure that waste is collected and contained. · Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging · Exposure estimation · Worker (inhalation) *The exposure estimation was carried out in accordance with ECETOC TRA.* The calculated value is smaller than the DNEL. Guidance for downstream users Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8. EU (Contd. on page 15)



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| Annex: Exposure scenario 2  |                      |
|---|----------------------|
| Short title of the exposure scenario Formulation or re-packing  |                      |
| Sector of Use Industrial use.   |                      |
| Process category  |                      |
| PROC1 Chemical production or refinery in closed process without likelihood of exposu  | re or processes wit  |
| equivalent containment conditions.  |                      |
| PROC2 Chemical production or refinery in closed continuous process with occasional  | controlled exposur   |
| or processes with equivalent containment conditions   |                      |
| PROC3 Manufacture or formulation in the chemical industry in closed batch proces.   | ses with occasion    |
| controlled exposure or processes with equivalent containment condition  |                      |
| PROC4 Chemical production where opportunity for exposure arises   |                      |
| PROC5 Mixing or blending in batch processes   | facilitica           |
| PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated j   |                      |
| PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facili<br>PROC9 Transfer of substance or mixture into small containers (dedicated filling line, inc |                      |
| PROC14 Tabletting, compression, extrusion, pelletisation, granulation   | iuuing weigning)     |
| PROC15 Use as laboratory reagent  |                      |
| Environmental release category ERC2 Formulation into mixture  |                      |
| Description of the activities / processes covered in the Exposure Scenario  |                      |
| See section 1 of the annex to the Safety Data Sheet.  |                      |
| <b>Conditions of use</b> Customary application according to section 1.  |                      |
| <b>Duration and frequency</b> 8hrs (full working shift).  |                      |
| Worker 8hrs (full working shift).   |                      |
| Physical parameters   |                      |
| The data on the physical - chemical properties in the Exposure Scenario is based on the   | he properties of the |
| preparation.  |                      |
| Physical state Fluid  |                      |
| Concentration of the substance in the mixture Raw material.   |                      |
| Other operational conditions Observe the general safety regulations when handling chem  |                      |
| Other operational conditions affecting environmental exposure Use only on hard ground   | <i>l</i> .           |
| Other operational conditions affecting worker exposure  |                      |
| Avoid contact with the skin.  |                      |
| Take precautionary measures against static discharge.   |                      |
| Keep away from sources of ignition - No smoking.  |                      |
| Risk management measures<br>Worker protection   |                      |
| worker protection<br>Organisational protective measures   |                      |
| Keep good industrial hygiene.   |                      |
| Deploy only trained chemical workers.   |                      |
| Ensure that activities are executed by specialists or authorised personnel only.  |                      |
| Ensure that derivities are executed by specialists of dumonsed personnet only.<br>Ensure good ventilation. This can be achieved by using a local exhaustion or general exh          | aust system If the   |
| measures are insufficient to keep the solvent vapour concentration below the workp  |                      |
| adequate respiratory protective device.   | innin, would         |
| Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, sho   | ould not handle t    |
| product.  |                      |
| Provide sufficient washing facilities.  |                      |
| Work clothes must not consist of textiles that exhibit dangerous melting behaviour in case  | of fire.             |
| Technical protective measures   | JJ                   |
| Use product only in enclosed systems.   |                      |
| Ensure good ventilation/exhaustion at the workplace.  |                      |
| Provide explosion-proof electrical equipment.   |                      |
|   | ·~ •                 |

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## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Version number 18 (replaces version 17) Revision: 13.05.2024 Printing date 13.05.2024 Trade name: n-Hexane 95% (Contd. of page 15) · Personal protective measures Avoid contact with the skin. The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Rubber gloves Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. Tightly sealed goggles The usual precautionary measures are to be adhered to when handling chemicals. Detailed measures on hand protection according to Safety Data Sheet, section 8. Use suitable respiratory protective device only when aerosol or mist is formed. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. The selected respiratory protection must comply with standard EN 136/140/143/145/149. Protective work clothing · Environmental protection measures • *Water* Do not allow to reach sewage system. • Soil Prevent contamination of soil. • Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet. • **Disposal measures** Ensure that waste is collected and contained. · Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging • Exposure estimation · Worker (inhalation) *The exposure estimation was carried out in accordance with ECETOC TRA.* The calculated value is smaller than the DNEL. · Guidance for downstream users Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8. EU

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#### Annex: Exposure scenario 3

- · Short title of the exposure scenario Chemicals products for laboratory
- · Sector of Use Industrial use.
- **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- Conditions of use Customary application according to section 1.
- · Duration and frequency 5 workdays/week.
- · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

- · Physical state Fluid
- · Concentration of the substance in the mixture Raw material.
- · Other operational conditions Observe the general safety regulations when handling chemicals.
- Other operational conditions affecting environmental exposure Use only on hard ground.
- · Other operational conditions affecting worker exposure
- Ensure adequate ventilation, especially in closed rooms.
- Avoid contact with the skin.

Take precautionary measures against static discharge.

- Keep away from sources of ignition No smoking.
- · Risk management measures
- Worker protection

#### • Organisational protective measures

- Keep good industrial hygiene.
- Deploy only trained chemical workers.
- Ensure that activities are executed by specialists or authorised personnel only.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

The appropriate type of chemical protective glove has to be selected specifically, depending on the concentration and quantity of hazardous substances in the workplace.

Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product.

Provide sufficient washing facilities.

Work clothes must not consist of textiles that exhibit dangerous melting behaviour in case of fire.

- Technical protective measures
- Ensure good ventilation/exhaustion at the workplace.
- Use product only in enclosed systems.

Provide explosion-proof electrical equipment.

- · Personal protective measures
- Avoid contact with the skin.

The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Protective gloves
- Rubber gloves

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. Tightly sealed goggles

The usual precautionary measures are to be adhered to when handling chemicals.

Detailed measures on hand protection according to Safety Data Sheet, section 8.

Use suitable respiratory protective device only when aerosol or mist is formed.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

The selected respiratory protection must comply with standard EN 136/140/143/145/149.



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## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 13.05.2024 Version number 18 (replaces version 17) Revision: 13.05.2024 Trade name: n-Hexane 95% (Contd. of page 17) Protective work clothing · Environmental protection measures Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet. • Water Do not allow to reach sewage system. · Soil Prevent contamination of soil. · Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet. · Disposal measures Disposal must be made according to official regulations. Ensure that waste is collected and contained. · Disposal procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Waste type Partially emptied and uncleaned packaging · Exposure estimation · Worker (inhalation) The exposure estimation was carried out in accordance with ECETOC TRA. The calculated value is smaller than the DNEL. · Guidance for downstream users Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8. EU