

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Version number 1

Revision: 03.04.2023

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

- **1.1 Product identifier**
- **Trade name:** Heptane
- **Article number:** 1182
- **CAS Number:**  
64742-49-0
- **Registration number** 01-2119475515-33
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Solvent for various applications
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Möller Chemie GmbH & Co. KG  
Bürgerkamp 1  
D-48565 Steinfurt  
Tel.: 02551/9340-0  
Fax: 02551/9340-60
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.

STOT SE 3      H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07



GHS08



GHS09

- **Signal word** *Danger*

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**· Hazard statements**

- H225 *Highly flammable liquid and vapour.*
- H315 *Causes skin irritation.*
- H336 *May cause drowsiness or dizziness.*
- H304 *May be fatal if swallowed and enters airways.*
- H411 *Toxic to aquatic life with long lasting effects.*

**· Precautionary statements**

- P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
- P321 *Specific treatment (see on this label).*
- P331 *Do NOT induce vomiting.*
- P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
- P362+P364 *Take off contaminated clothing and wash it before reuse.*
- P405 *Store locked up.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· 2.3 Other hazards**

*endocrine harmful characteristics:  
No data available.*

**· Results of PBT and vPvB assessment****· PBT:**

*The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).*

**· vPvB:**

*The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).*

### SECTION 3: Composition/information on ingredients

**· 3.1 Substances**

- CAS No. Description**  
64742-49-0 Heptane

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**

- After inhalation:** *Supply fresh air, consult doctor in case of complaints.*
- After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- After eye contact:** *Rinse opened eye for several minutes under running water.*
- After swallowing:** *Do not induce vomiting; call for medical help immediately.*
- 4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- 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:** *CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.*
- For safety reasons unsuitable extinguishing agents:** *Water with full jet*

**· 5.2 Special hazards arising from the substance or mixture**

*In case of fire, the following can be released:  
Carbon monoxide, carbon dioxide*

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- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation / exhaust at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in well closed containers, cool and dry.
- **Information about storage in one common storage facility:** Not mandatory.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
RCP-TWA: 1600 mg/m<sup>3</sup> (total hydrocarbons)
- **DNELs**  
worker:  
long-term systemic effects, dermal: 300 mg/kg/d  
Long-term systemic effects, inhalative: 2085 mg/m<sup>3</sup>  
Consumer:  
long-term systemic effects, dermal: 149 mg/kg/d  
Long-term systemic effects, inhalative: 447 mg/m<sup>3</sup>  
long-term systemic effects, oral: 149 mg/kg/d
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Not required.
- **Hand protection**  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
Nitrile rubber, NBR  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

#### · General Information

- |   |                           |
|---|---------------------------|
| · <b>Colour:</b>  | Colourless                |
| · <b>Odour:</b>   | Characteristic            |
| · <b>Odour threshold:</b>   | Not determined.           |
| · <b>Melting point/freezing point:</b>                            | Undetermined.             |
| · <b>Boiling point or initial boiling point and boiling range</b> | 94-100 °C                 |
| · <b>Flammability</b>   | Not applicable.           |
| · <b>Lower and upper explosion limit</b>                          |                           |
| · <b>Lower:</b>   | Not determined.           |
| · <b>Upper:</b>   | Not determined.           |
| · <b>Flash point:</b>   | -5 °C                     |
| · <b>Decomposition temperature:</b>                               | Not determined.           |
| · <b>pH</b>   | Not determined.           |
| · <b>Viscosity:</b>   |                           |
| · <b>Kinematic viscosity</b>                                      | Not determined.           |
| · <b>Dynamic:</b>   | Not determined.           |
| · <b>Solubility</b>   |                           |
| · <b>water:</b>   | Not or hardly miscible.   |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.           |
| · <b>Vapour pressure at 20 °C:</b>                                | 100 hPa                   |
| · <b>Density and/or relative density</b>                          |                           |
| · <b>Density at 15 °C:</b>  | 705-725 g/cm <sup>3</sup> |
| · <b>Relative density</b>   | Not determined.           |
| · <b>Vapour density</b>   | Not determined.           |

### · 9.2 Other information

- |  |   |
|--|---|
| · <b>Appearance:</b>   |   |
| · <b>Form:</b>   | Fluid   |
| · <b>Important information on protection of health and environment, and on safety.</b> |   |
| · <b>Auto-ignition temperature:</b>  | Not determined.   |
| · <b>Explosive properties:</b>   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Change in condition</b>   |   |
| · <b>Evaporation rate</b>  | Not determined.   |

### · Information with regard to physical hazard classes

- |                               |                                     |
|-------------------------------|-------------------------------------|
| · <b>Explosives</b>           | Void                                |
| · <b>Flammable gases</b>      | Void                                |
| · <b>Aerosols</b>             | Void                                |
| · <b>Oxidising gases</b>      | Void                                |
| · <b>Gases under pressure</b> | Void                                |
| · <b>Flammable liquids</b>    |                                     |
|                               | Highly flammable liquid and vapour. |

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· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:**  
Thermal decomposition is highly dependent on the external conditions. It forms a complex mixture of liquid and gases in the air, including carbon monoxide and carbon dioxide and other organic compounds, when this material undergoes combustion or thermal or oxidative degradation.

### 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.
- **LD/LC50 values relevant for classification:**  
LD50/oral/rat > 5840 mg/kg  
LD50/dermal/rat > 2920 mg/kg  
LC50/4h/inhalative/rat > 23.3 mg/l
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.
- **Additional toxicological information:**  
endocrine harmful characteristics:  
No data available.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

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### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
  - Fishes:  
LC/EC/IC50: 1 - 10 mg/l
  - Algae:  
LC/EC/IC50: 1 - 10 mg/l
  - invertebrates:  
LC/EC/IC50: 1 - 10 mg/l
- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** Bioaccumulation possible.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
  - 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.
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - Toxic for aquatic organisms

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal according to local regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                    | UN1206  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | 1206 HEPTANES, ENVIRONMENTALLY HAZARDOUS<br>HEPTANES, MARINE POLLUTANT<br>HEPTANES  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>  |  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>  | 3 (F1) Flammable liquids.   |

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· <b>Label</b>	3
· <b>IMDG</b>	
 	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Environmentally hazardous substance, liquid; Marine Pollutant
· <b>Marine pollutant:</b>	Yes
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>UN "Model Regulation":</b>	UN 1206 HEPTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

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- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing SDS:** Product safety department
- **Contact:** Mrs. Steyer
- **Abbreviations and acronyms:**  
*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*DNEL: Derived No-Effect Level (REACH)*  
*LC50: Lethal concentration, 50 percent*  
*LD50: Lethal dose, 50 percent*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*Flam. Liq. 2: Flammable liquids – Category 2*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
*Asp. Tox. 1: Aspiration hazard – Category 1*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

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