

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name** *n-Decane 99 %*
- **Article number:** 205521
- **CAS Number:**
124-18-5
- **EC number:**
204-686-4
- **Registration number** 01-2119474199-26-0001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Identified uses**
 Manufacture of substance - Industrial
 Distribution of substance - Industrial
 Formulation & (re)packing of substances and mixtures - Industrial
 Use in Coatings - Industrial
 Use in Cleaning Agents - Industrial
 Use in Cleaning Agents - Professional
 Use in Cleaning Agents - Consumer
 Lubricants - Industrial
 Lubricants - Consumer
 Metal working fluids / rolling oils - Industrial
 Use as a Fuel - Industrial
 Use as a Fuel - Consumer
 Other Consumer Uses - Consumer
 Use in Laboratories - Industrial
 Use in Laboratories - Professional
 Rubber production and processing - Industrial
 Polymer processing - Industrial
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Haltermann GmbH
 Schlengendeich 17
 D-21107 Hamburg, Germany
 Tel.: +49-(0)40-33318-0
 E-mail: Info-haltermann@h-c-s-group.com
- **Informing department:** Product stewardship
- **1.4 Emergency telephone number:** TUIS: +49 (0)69-305 6418

2 Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

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

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R Xn; Harmful

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R65: Harmful: may cause lung damage if swallowed.

R10-66: Flammable. Repeated exposure may cause skin dryness or cracking.

· **Information concerning particular hazards for human and environment:**

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

· **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 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

decane

· **Hazard statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Designation:**

124-18-5 decane

· **Identification number(s):**

· **EC number:** 204-686-4

4 First aid measures

· **4.1 Description of first aid measures**

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** The product is not skin irritating.

· **After eye contact** Rinse opened eye for several minutes under running water.

· **After swallowing** Do not induce vomiting; instantly call for medical help.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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Safety data sheet

according to 1907/2006/EC, Article 31

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- **Danger** Aspiration hazard
- **4.3 Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
 CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose of contaminated material as waste according to item 13.
 Ensure adequate ventilation.
- **6.4 Reference to other sections**
 See Section 8 for information on personal protection equipment.

7 Handling and storage

- **7.1 Precautions for safe handling**
 Keep containers tightly sealed.
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
 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 containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 Keep lamps filled with this liquid out of the reach of children.

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Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

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.

Filter A.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

· **Material of gloves**

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.

Nitrile rubber, NBR

> 0,38 mm

· **Penetration time of glove material** > 480 min (EN 374)

· **Eye protection:** Tightly sealed safety glasses.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Colourless
Smell:	Mild

· **Change in condition**

Melting point/Melting range: -29.7 °C

Boiling point/Boiling range: 179 °C

· **Flash point:** 49 °C

· **Ignition temperature:** 205 °C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· **Critical values for explosion:**

Lower: 0.6 Vol %

Upper: 6.5 Vol %

· **Density at 20 °C** 0.73 g/cm³

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

· **9.2 Other information** No further relevant information available.

10 Stability and reactivity

· **10.1 Reactivity**

· **10.2 Chemical stability**

· **Conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

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· **10.6 Hazardous decomposition products:** None

11 Toxicological information

· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

Inhalative	LC50 /4 h	72.3 mg/L (mus)
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124-18-5 decane

Oral	LD50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 5000 mg/kg (rabbit) (OECD 402)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritant effect.· **Sensitization:** No sensitizing effect known.

12 Ecological information

· **12.1 Toxicity**· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **14.1 UN-Number**· **ADR, IMDG, IATA** UN2247· **14.2 UN proper shipping name**· **ADR** 2247 n-DECANE· **IMDG, IATA** N-DECANE

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 · **14.3 Transport hazard class(es)**

 · **ADR**


- | | |
|----------------|---------------------------|
| · Class | 3 (F1) Flammable liquids. |
| · Label | 3 |

 · **IMDG, IATA**


- | | |
|----------------|----------------------|
| · Class | 3 Flammable liquids. |
| · Label | 3 |

 · **14.4 Packing group**

- | | |
|--------------------------|-----|
| · ADR, IMDG, IATA | III |
|--------------------------|-----|

 · **14.5 Environmental hazards:**

- | | |
|----------------------------|----|
| · Marine pollutant: | No |
|----------------------------|----|

 · **14.6 Special precautions for user**

- | | |
|-------------------------|-----------------------------|
| · Warning: | Warning: Flammable liquids. |
| · Kemler Number: | 30 |
| · EMS Number: | F-E, S-E |

 · **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

 · **Transport/Additional information:**

 · **ADR**

- | | |
|----------------------------------|-----|
| · Limited quantities (LQ) | LQ7 |
| · Transport category | 3 |
| · Tunnel restriction code | D/E |

 · **UN "Model Regulation":**

UN2247, n-DECANE, 3, III

 * **15 Regulatory information**

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

 · **TSCA (Toxic Substances Control Act)**

Substance is listed.

 · **Canadian Domestic Substances List (DSL)**

Substance is listed.

 · **Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

Substance is listed.

 · **Chinese Chemical Inventory of Existing Chemical Substances (IECSC)**

Substance is listed.

 · **Australian Inventory of Chemical Substances (AICS)**

Substance is listed.

 · **Korean Existing Chemical Inventory (KECI)**

Substance is listed.

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 · **New Zealand Inventory of Chemicals (NZIoC)**

Substance is listed.

 · **Japan Existing and New Chemical Substance List (ENCS)**

Substance is listed.

 · **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

 · **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

 · *** Data compared to the previous version altered.**
Annex: Exposure scenario

 · **Short title of the exposure scenario**

As no human health or environmental hazard was identified no exposure assessment and risk characterization was performed.