

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

**Trade name** n-Hexane 95%

**Article number:** 205374

**CAS Number:** 110-54-3

**EC number:** 203-777-6

**Index number:** 601-037-00-0

**Registration number** 01-2119480412-44-0001

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

**Identified uses**

- Manufacture of substance - Industrial
- Distribution of substance - Industrial
- Formulation & (re)packing of substances and mixtures - Industrial
- Use in Coatings - Industrial
- Use in Coatings - Professional
- Use in Cleaning Agents - Industrial
- Use in Cleaning Agents - Professional
- Blowing agents - Industrial
- Use as a Fuel - Industrial
- Use as a Fuel - Professional
- Functional Fluids - Industrial
- Functional Fluids - Professional
- Use in Laboratories - Industrial
- Use in Laboratories - Professional
- Polymer processing - Industrial
- Polymer processing - Professional
- Mining chemicals - Industrial

**Application of the substance /  
the mixture**

Solvents

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

**Manufacturer/Supplier:** Haltermann Carless Deutschland GmbH  
Schlengendeich 17  
D-21107 Hamburg, Germany  
Tel.: +49 40 333 18 0  
E-mail: MSDS-HCDE@h-c-s-group.com

**Informing department:** Product Stewardship

**1.4 Emergency telephone**

**number:** CHEMTREC +1 703-741-5970 / +44 870 8200418

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

Skin Irrit. 2 H315 Causes skin irritation.

Repr. 2 H361f Suspected of damaging fertility.

STOT SE 3 H336 May cause drowsiness or dizziness.

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

**Trade name n-Hexane 95%**

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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

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

**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

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

n-hexane

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H361f Suspected of damaging fertility.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

**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.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

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****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

CAS No. Designation: 110-54-3 n-hexane

Identification number(s):

EC number: 203-777-6

Index number: 601-037-00-0

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Instantly remove any clothing soiled by the product.

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 50

Revision: 04.12.2020

Trade name n-Hexane 95%

<b>After inhalation</b>	In case of unconsciousness bring patient into stable side position for transport.
<b>After skin contact</b>	Instantly wash with water and soap and rinse thoroughly. Instantly rinse with water.
<b>After eye contact</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing</b>	Do not induce vomiting; instantly call for medical help.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	No further relevant information available.
<b>Danger</b>	Aspiration hazard
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No further relevant information available.

#### SECTION 5: Firefighting measures

<b>5.1 Extinguishing media</b>	
<b>Suitable extinguishing agents</b>	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.
<b>For safety reasons unsuitable extinguishing agents</b>	Water with a full water jet.
<b>5.2 Special hazards arising from the substance or mixture</b>	Formation of poisonous gases during heating or in fires. The vapour is heavier than air, spreads along the ground and distant ignition is possible.
<b>5.3 Advice for firefighters</b>	
<b>Protective equipment:</b>	Put on breathing apparatus.

#### SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear protective equipment. Keep unprotected persons away.
<b>6.2 Environmental precautions:</b>	Do not allow product to reach sewage system or water bodies. Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system.
<b>6.3 Methods and material for containment and cleaning up:</b>	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.
<b>6.4 Reference to other sections</b>	See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

#### SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
<b>Information about protection against explosions and fires:</b>	Keep ignition sources away - Do not smoke.

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

Trade name n-Hexane 95%

Protect against electrostatic charges.

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

##### Storage

##### Requirements to be met by

**storerooms and containers:** Store in cool location.

##### Information about storage in one

**common storage facility:** Not required.

##### Further information about

**storage conditions:** Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Additional information about

**design of technical systems:** No further data; see item 7.**Components with critical values that require monitoring at the workplace:**

##### 110-54-3 n-hexane

WEL Long-term value: 72 mg/m<sup>3</sup>, 20 ppm

##### DNELs

##### 110-54-3 n-hexane

Oral Consumers 4 mg/kg bw/day (Long-term - systemic)

Dermal Workers 11 mg/kg bw/day (Long-term - systemic)

Consumers 5.3 mg/kg bw/day (Long-term - systemic)

Inhalative Workers 75 mg/m<sup>3</sup> (Long-term - systemic)Consumers 16 mg/m<sup>3</sup> (Long-term - systemic)**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 away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Store protective clothing separately.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.  
Do not ingest.**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:** Protective gloves.

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

Trade name n-Hexane 95%

<b>Material of gloves</b>	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 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
<b>Penetration time of glove material</b>	> 480 min (EN 374)
<b>Eye protection:</b>	Tightly sealed safety glasses.

### SECTION 9: Physical and chemical properties

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

##### General Information

##### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Smell:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

##### Change in condition

<b>Melting point/freezing point:</b>	-95 °C
<b>Initial boiling point and boiling range:</b>	67-69 °C

**Flash point:** -26 °C

**Inflammability (solid, gaseous)** Not applicable.

**Ignition temperature:** 240 °C

**Decomposition temperature:** Not determined.

**Self-inflammability:** Not determined.

**Explosive properties:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

##### Critical values for explosion:

<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.4 Vol %

**Vapour pressure:** Not determined.

**Density at 20 °C** 0.66 g/cm<sup>3</sup>

**Relative density** Not determined.

**Vapour density** Not determined.

**Evaporation rate** Not determined.

##### Solubility in / Miscibility with

**Water at 20 °C:** 0.1 g/l

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

Trade name n-Hexane 95%

**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:****dynamic at 20 °C:** 0.47 mPas**kinematic:** Not determined.**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**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.

**10.6 Hazardous decomposition products:**

Carbon monoxide

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values that are relevant for classification:****110-54-3 n-hexane**

Oral LD50 16,000 mg/kg (rat) (OECD 401)

Dermal LD50 &gt;3,350 mg/kg (rabbit) (OECD 402)

Inhalative LC50 /4 h 259.3 mg/L (rat) (OECD 403)

**Primary irritant effect:****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.**Additional toxicological information:****CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****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.**STOT-single exposure** May cause drowsiness or dizziness.**STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.**Aspiration hazard** May be fatal if swallowed and enters airways.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability**

No further relevant information available.

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

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**Trade name n-Hexane 95%**

<b>12.3 Bioaccumulative potential</b>	No further relevant information available.
<b>12.4 Mobility in soil</b>	No further relevant information available.
<b>Ecotoxicological effects:</b>	
<b>Remark:</b>	Toxic for fish
<b>Additional ecological information:</b>	
<b>General notes:</b>	Water hazard class 2 (Assessment by list): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.
<b>12.6 Other adverse effects</b>	No further relevant information available.

### SECTION 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.

### SECTION 14: Transport information

<b>14.1 UN-Number</b>	
<b>ADR/RID, IMDG, IATA</b>	UN1208
<b>14.2 UN proper shipping name</b>	
<b>ADR/RID</b>	1208 HEXANES, ENVIRONMENTALLY HAZARDOUS
<b>IMDG</b>	HEXANES, MARINE POLLUTANT
<b>IATA</b>	HEXANES

#### 14.3 Transport hazard class(es)

ADR/RID



**Class** 3 (F1) Flammable liquids.  
**Label** 3

IMDG



**Class** 3 Flammable liquids.

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.01.2021

Version number 50

Revision: 04.12.2020

Trade name n-Hexane 95%

<b>Label</b>	3
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**IATA**

<b>Class</b>	3 Flammable liquids.
<b>Label</b>	3
<b>14.4 Packing group</b>	
<b>ADR/RID, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	Yes
	Symbol (fish and tree)
<b>Special marking (ADR/RID):</b>	Symbol (fish and tree)
<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Kemler Number:</b>	33
<b>EMS Number:</b>	F-E,S-D
<b>Stowage Category</b>	E
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

**Transport/Additional information:****ADR/RID**

<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

**IMDG**

<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>UN "Model Regulation":</b>	UN 1208 HEXANES, 3, II, ENVIRONMENTALLY HAZARDOUS

<b>SECTION 15: Regulatory information</b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
TSCA (Toxic Substances Control Act)

: ACTIVE

Canadian Domestic Substances List (DSL)

Substance is listed.

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Version number 50

Revision: 04.12.2020

**Trade name n-Hexane 95%****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.

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

Substance is listed.

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

Substance is 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

**Qualifying quantity (tonnes) for  
the application of upper-tier  
requirements**

500 t

**REGULATION (EC) No 1907/2006****ANNEX XVII**

Conditions of restriction: 3

**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.

**15.2 Chemical safety****assessment:**

A Chemical Safety Assessment has been carried out.

**SECTION 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 Organisation

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

**Safety data sheet**  
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Version number 50

Revision: 04.12.2020

**Trade name n-Hexane 95%**

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  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**\* Data compared to the previous  
version altered.**

**Annex: Exposure scenario****Short title of the exposure  
scenario**

n-Hexane  
EC number: 203-777-6  
[http://pydio.haltermann.com/data/public/es\\_hexane.pdf](http://pydio.haltermann.com/data/public/es_hexane.pdf)