

## Safety Data Sheet

acc. to OSHA HCS

Printing date 01/17/2020

Reviewed on 01/17/2020

### 1 Identification

**Product identifier**
**Trade name:** n-Hexadecane 99%

**Article number:** 205582

**CAS Number:** 544-76-3

**Application of the substance /  
the mixture** Laboratory chemicals

**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

**Information department:** Product Stewardship

**Emergency telephone number:** CHEMTREC +1 703-741-5970 / +1-800-424-9300

### 2 Hazard(s) identification

**Classification of the substance or mixture**

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

**Label elements**
**GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**

**Signal word**

Danger

**Hazard-determining components of labeling:**

hexadecane

**Hazard statements** H304 May be fatal if swallowed and enters airways.

**Precautionary statements** P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

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

**Classification system:**
**NFPA ratings (scale 0 - 4)**


Health = 0

Fire = 1

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**


Health = 0

Fire = 1

Reactivity = 0

**Other hazards**
**Results of PBT and vPvB assessment**
**PBT:** Not applicable.

**vPvB:** Not applicable.

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### 3 Composition/information on ingredients

**Chemical characterization: Substances**

CAS No. Description 544-76-3 hexadecane

### 4 First-aid measures

**Description of first aid measures**

<b>After inhalation:</b>	Supply fresh air; consult doctor in case of complaints.
<b>After skin contact:</b>	Generally the product does not irritate the skin.
<b>After eye contact:</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing:</b>	Do not induce vomiting; immediately call for medical help.
<b>Information for doctor:</b>	
<b>Most important symptoms and effects, both acute and delayed</b>	No further relevant information available.
<b>Danger</b>	Aspiration hazard
<b>Indication of any immediate medical attention and special treatment needed</b>	No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media**

<b>Suitable extinguishing agents:</b>	Use fire fighting measures that suit the environment.
<b>Special hazards arising from the substance or mixture</b>	The vapour is heavier than air, spreads along the ground and distant ignition is possible.
<b>Advice for firefighters</b>	
<b>Protective equipment:</b>	No special measures required.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Environmental precautions: No special measures required.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

**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.

**Protective Action Criteria for Chemicals**
**PAC-1:**

: 35 mg/m<sup>3</sup>
**PAC-2:**

: 380 mg/m<sup>3</sup>
**PAC-3:**

: 2,800 mg/m<sup>3</sup>

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### 7 Handling and storage

**Handling:**
**Precautions for safe handling** No special measures required.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Storage class:** 10

**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.

**Control parameters**
**Components with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not ingest.

**Breathing equipment:** Not required.

**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:** Goggles recommended during refilling.

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**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Color:</b>	Colorless
<b>Odor:</b>	Mild
<b>Odor threshold:</b>	Not determined.
<b>pH-value:</b>	Not determined.

**Change in condition**

<b>Melting point/Melting range:</b>	18 °C (64.4 °F)
<b>Boiling point/Boiling range:</b>	287 °C (548.6 °F)

**Flash point:** 135 °C (275 °F)**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** 205 °C (401 °F)**Decomposition temperature:** Not determined.**Auto igniting:** Not determined.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

<b>Lower:</b>	40 g/m <sup>3</sup>
<b>Upper:</b>	6.5 Vol %

**Vapor pressure:** Not determined.**Density at 20 °C (68 °F):** 0.773 g/cm<sup>3</sup> (6.451 lbs/gal)**Relative density** Not determined.**Vapor density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with****Water:** Not miscible or difficult to mix.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.**Other information** No further relevant information available.**10 Stability and reactivity****Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition /****conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous  
reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

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**Trade name:** n-Hexadecane 99%

**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information****Information on toxicological effects****Acute toxicity:****Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

Substance is not listed.

**NTP (National Toxicology Program)**

Substance is not listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**12 Ecological information****Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**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 course or sewage system.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

**13 Disposal considerations****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****UN-Number**

DOT, ADR, ADN, IMDG, IATA

Void

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**Trade name:** n-Hexadecane 99%

<b>UN proper shipping name</b>	
<b>DOT, ADR, ADN, IMDG, IATA</b>	Void
<b>Transport hazard class(es)</b>	
<b>DOT, ADR, ADN, IMDG, IATA</b>	
<b>Class</b>	Void
<b>Packing group</b>	
<b>DOT, ADR, IMDG, IATA</b>	Void
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

**\*15 Regulatory information**

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

**Section 355 (extremely hazardous substances):**

Substance is not listed.

**Section 313 (Specific toxic chemical listings):**

Substance is not listed.

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

: ACTIVE

**Hazardous Air Pollutants**

Substance is not listed.

**Proposition 65****Chemicals known to cause cancer:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**Chemicals known to cause developmental toxicity:**

Substance is not listed.

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

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**Trade name: n-Hexadecane 99%****Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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.

**Date of preparation / last****revision**

01/17/2020 / 10

**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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Asp. Tox. 1: Aspiration hazard – Category 1

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