

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

1. IDENTIFICATION:

Product Code : 92435, 98237

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address : W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,
NAVI MUMBAI - 400 701.

E-mail : sales@adventchembio.com

WEBSITE : www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Aspiration hazard : Category 1

Labels elements :

Hazard symbol :



Signal word : Danger

Hazard statement : May be fatal if swallowed and enters airways
Immediately call a POISON CENTER/ doctor
Do NOT induce vomiting
: Store locked up
Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard information: Repeated exposure may cause skin dryness or cracking.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
n-Hexadecane	544-76-3	NLT 98.5%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed** : The most important known symptoms and effects are described in the labelling.
- Indication of immediate medical attention and special treatment needed** : No data available.

5. FIRE FIGHTING MEASURES:

General information :

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** : Foam, dry powder or carbon dioxide.
- Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.
- Specific hazards arising from the chemical** : Carbon oxides
: Combustible.
: Vapors are heavier than air and may spread along floors.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapors possible in the event of fire

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.
: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.
: Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters**

Appropriate engineering controls : No data available

Individual protection measures, such as personal protective equipment

General information : An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection : Wear safety glasses with side shields (or goggles).

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Required when vapors/aerosols are generated
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Colourless liquid.
Odor	:	Odorless
Solubility	:	Insoluble
Formula	:	C ₁₆ H ₃₄
Molecular Weight	:	226.45 g/mol
Density	:	0.760-0.780 g/cm ³ at 20°C
pH	:	No data available
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	285°C
Melting Point	:	18°C
Flash Point	:	112 °C
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	0.004 @ 20°C
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with: Strong oxidizing agents
Conditions to avoid	:	Strong heating.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	In the event of fire: see section 5

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Oral Product	: LD 50 (Rat): 5.000 mg/kg
Dermal Product	: LD 50 (Rabbit): 3.160 mg/kg
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No skin irritation
Serious eye damage/eye irritation Product	: No eye irritation
Respiratory or skin sensitization Product	: Negative.
Carcinogenicity Product	: No data available
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No data available
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No data available
Specific target organ toxicity - single exposure Product	: Not known.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: May be fatal if swallowed and enters airways.
Other effects	: None known.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: n-HEXADECANE

CAS Number: 544-76-3

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: Semi-static test LL50 - Fish - > 1.028 mg/l - 96 h

Aquatic invertebrates Product

: No data available.

Toxicity to algae

: EL50 - Pseudokirchneriella subcapitata (green algae) - > 3.200 mg/l - 72 h

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates Product

: No data available.

Toxicity to Aquatic Plants Product:

: No data available.

Persistence and degradability

Biodegradation Product

: Biodegradability : aerobic - Exposure time 28 d Result: 74 % - Readily biodegradable.

BOD/COD ratio Product

: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product

: Salmo salar (Atlantic salmon) - 7 d - 1700 µg/l(n-hexadecane)

Partition coefficient n-octanol / water (log Kow) Product

: No data available.

Mobility in soil

: No data available.

Other adverse effects

: No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions

: Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging

: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	NA	n-Hexadecane		Not dangerous goods	
IMDG	NA	n-Hexadecane		Not dangerous goods	
IATA	NA	n-Hexadecane		Not dangerous goods	

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: n-HEXADECANE

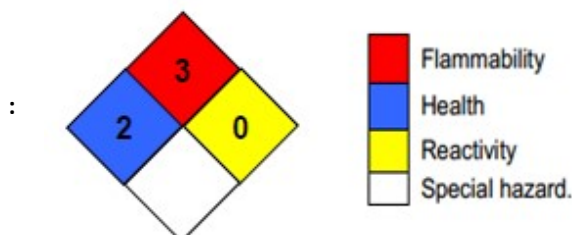
CAS Number: 544-76-3

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 21/09/2023

Version : 01

Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).