

## 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

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**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.



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- 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.

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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).  
**Hand protection** : Chemical resistant gloves.

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<b>Other</b>	:	Wear suitable protective clothing.
<b>Respiratory protection</b>	:	Required when vapors/aerosols are generated
<b>Hygiene measures</b>	:	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:**

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

**10. STABILITY AND REACTIVITY:**

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

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

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

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**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment****Fish Product**

: Semi-static test LL50 - Fish - &gt; 1.028 mg/l - 96 h

**Aquatic invertebrates Product**

: No data available.

**Toxicity to algae**

: EL50 - Pseudokirchneriella subcapitata (green algae) - &gt; 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	

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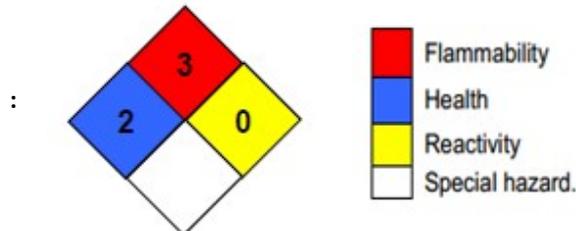
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**15. REGULATORY INFORMATION:**

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

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