



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HEPTANES

CAS Number: 142-82-5

1. IDENTIFICATION:

Product Code : 90418, 98314

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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

Flammable liquids : Category 2

Health hazards

Skin irritation : Category 2

Specific target organ toxicity - single exposure : Category 3

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.

: Causes skin irritation.
May cause drowsiness or dizziness.
Very toxic to aquatic life with long lasting effects.

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.



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Response	:	Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
		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.
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	:	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Heptanes	142-82-5	NA	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	:	Toxic if inhaled. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	:	Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES:

General information : Flammable liquid and vapor.

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.

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 : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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 : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. 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 container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.



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

controls : No data available

Individual protection measures, such as personal protective equipment

General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
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	: Clear, colourless, mobile, very volatile liquid with a characteristic odour.
Odor	: No data available
Solubility	: No data available
Formula	: C_7H_{16}
Molecular Weight	: 100.21 g/mol
Specific Gravity	: 0.684 g/mL (25 °C)
pH	: No data available
% Volatiles by volume @ 21C (70F)	: No data available
Boiling Point	: 98 °C
Melting Point	: -91 °C
Flash Point	: -4 °C
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: 48 hPa (20.0 °C)
Evaporation Rate (BuAc=1)	: No data available



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10. STABILITY AND REACTIVITY:

Reactivity	: Vapours may form explosive mixture with air.
Chemical stability	: Material is stable under ambient conditions.
Possibility of hazardous reactions	: Hazardous reactions : Risk of ignition or formation of inflammable gases or vapours with: Strong oxidizing agents phosphorus in the presence of: Chlorine.
Conditions to avoid	: Warming.
Incompatible materials	: Rubber and various plastics.
Hazardous decomposition products	: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Inhalation Product	LD50 Oral - Rat - male and female - > 5.000 mg/kg (OECD Test Guideline 401) Remarks: The value is given in analogy to the following substances: isooctane LC50 Inhalation - Rat - male and female - 4 h - > 29,29 mg/l – vapour : (OECD Test Guideline 403) LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402) Remarks: The value is given in analogy to the following substances: isooctane
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	Skin - Rabbit Result: Irritating to skin. - 24 h (OECD Test Guideline 404) : Remarks: The value is given in analogy to the following substances: isooctane Remarks: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Serious eye damage/eye irritation Product	Eyes - Rabbit Result: No eye irritation : (OECD Test Guideline 405) Remarks: The value is given in analogy to the following substances: isooctane.
Respiratory or skin sensitization Product	Maximisation Test - Guinea pig : Result: negative (OECD Test Guideline 406)
Carcinogenicity Product	: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No data available
US. National Toxicology Program (NTP) Report on Carcinogens	: No data available

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US. OSHA Specifically
Regulated Substances (29 : No data available.

CFR 1910.1001-1050
Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

: Method: OECD Test Guideline 471

: Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rat hepatocytes

Method: OECD Test

In vitro Product

: No data available.

Reproductive toxicity
Product

: No data available

Specific target organ
toxicity - single exposure

: May cause drowsiness or dizziness. Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Product
Specific target organ
toxicity - repeated

: No data available.

exposure Product
Aspiration hazard Product

: May be fatal if swallowed and enters airways. Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

Other effects

: None known.

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

LL50 (Rainbow darter (Etheostoma caeruleum)): > 13,4 mg/l

: Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: (ECHA)

Aquatic invertebrates
Product

EC50 (Daphnia magna (Water flea)): 0,23 mg/l

Exposure time: 21 d

Test Type: static test

: Analytical monitoring: yes

GLP: yes

Remarks: (ECHA)

(in analogy to similar products)

Chronic hazards to the aquatic environment
Fish Product

: Very toxic to aquatic life.

Aquatic invertebrates
Product

: No data available.

Toxicity to Aquatic Plants
Product:

EL50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l

: End point: Growth inhibition

Exposure time: 72 h



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Method: OECD Test Guideline 201
GLP: yes
Remarks: (ECHA)
NOELR (Pseudokirchneriella subcapitata (green algae)): 6,3 mg/l
End point: Growth inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: (ECHA)

Persistence and degradability**Biodegradation Product**

Test Type: aerobic
Concentration: 3,3 mg/l
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 10 d
Remarks: (ECHA)

BOD/COD ratio Product

55 %
Remarks: (Lit.)

Bioaccumulative potential**Bioconcentration factor (BCF) Product**

: No data available.

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

log Pow: > 3
Remarks: Bioaccumulation is not expected.

Mobility in soil

: No data available

Other adverse effects

: Discharge into the environment must be avoided.

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.



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14. TRANSPORT INFORMATION:

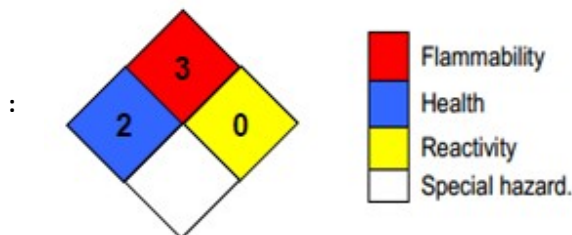
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1206	Heptanes	3	II	Yes
IMDG	UN 1206	Heptanes	3	II	Yes
IATA	UN 1206	Heptanes	3	II	No

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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