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MATERIAL SAFETY DATA SHEET

Version:02

PRODUCT NAME: n-PENTANE CAS Number: 109-66-0

1. IDENTIFICATION:

Product Code : 90476, 90197, 94266, 93065, 94059, 96255, 90036, 98114

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Flammable liquids : Category 2

Health hazards

Specific target organ

toxicity - single exposure, : Category 3

Central nervous system

Aspiration hazard : Category 1

Long-term (chronic) aquatic

hazard

Hazard symbol

Signal word

Category 2

Labels elements :

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Danger

Hazard statement Highly flammable liquid and vapor.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

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.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.



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: IF exposed or concerned: Get medical advice/ attention. Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

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.

Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are Storage

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

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.

COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
n-Pentane	109-66-0	NLT 99.0%	Yes

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.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

provide artificial respiration. If breathing is difficult, give oxygen. Inhalation

Get medical attention if symptoms persist.

Skin contact : Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact Eye contact

: The most important known symptoms and effects are described in the labelling.

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and

special treatment needed

: No data available.

FIRE FIGHTING MEASURES:

General information Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Carbon dioxide (CO2), Foam, Dry powder.



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Unsuitable extinguishing

media

: For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising

from the chemical

Carbon oxides, Combustible.

Pay attention to flashback. Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

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

Special protective

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures Methods and material for

equipment for fire-fighters

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Keep unauthorized personnel away.

containment and cleaning

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.

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.

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 away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric

sparks.

EXPOSURE CONTROLS PERSONAL PROTECTION:

Appropriate engineering

: No data available controls

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

General information rates should be matched to conditions. If applicable, use process enclosures, local exhaust

ventilation, or other engineering controls to maintain airborne levels below recommended



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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

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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 Required when vapours/aerosols are generated.

Recommended Filter type: Filter type AX

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, colorless liquid

Odor : Benzene like

Solubility : Partly Miscible in water.

Molecular Weight : 72.15 g/mol

Density : 0.624 - 0.626 g/cm3 at 20°C

pH : No data available

% Volatiles by volume @

Hygiene measures

21C (70F) : No data available

Boiling Point : 35.0 - 37.0°C

Melting Point : -129.7°C

Flash Point : -40 °C

Vapor Density (Air=1) : 2.49

Vapor Pressure (mm Hg) : 585.9 @ 21.13°C

Evaporation Rate (BuAc=1) : No data available

10. STABILITY AND REACTIVITY:

Reactivity : Vapors may form explosive mixture with air.

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

reactions : No data available

Conditions to avoid : Warming



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Incompatible materials : Strong oxidizing agents.

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)

Oral Product : LD 50 (Rat): 2.000 mg/kg

Dermal Product No data available.

Inhalation Product LC 50 (Rat): 25.3 mg/l

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

No skin irritation

Serious eye damage/eye

irritation Product

Respiratory or skin

: No eye irritation

Buehler Test - Guinea pig Result: negative

: No data available.

sensitization Product **Carcinogenicity Product** No data available.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

: No data available.

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050 Germ cell mutagenicity No data available.

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: In vivo micronucleus test

Species: Rat

Cell type: Bone marrow Application

Route: inhalation (vapor)



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Result: negative

Reproductive toxicity

Product

No data available.

Specific target organ

toxicity - single exposure

Product

May cause drowsiness or dizziness. - Central nervous system

Specific target organ

toxicity - repeated

exposure Product

No data available.

Aspiration hazard Product

May be fatal if swallowed and enters airways.

Aspiration hazard, Aspiration may cause pulmonary edema and pneumonitis.

Additional Information

Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Central nervous system

depression, Damage to the lungs. To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Fish Product

Acute hazards to the aquatic environment

: static test LC50 - Oncorhynchus mykiss (rainbow trout) - 4,26 mg/l - 96 h

Toxicity to daphnia and

other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - 2,7 mg/l - 48 h

Toxicity to algae

static test ErC50 - Selenastrum capricornutum (green algae) - 10,7 mg/l - 72 h static test NOEC - Selenastrum capricornutum (green algae) - 7,51 mg/l - 72 h

Chronic hazards to the aquatic environment

Fish Product

No data available.

Aquatic invertebrates No data available.

Product

No data available.

Toxicity to Aquatic Plants Product:

Persistence and degradability

Biodegradation Product

Readily biodegradable.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product



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Mobility in soil : No data available.

Other adverse effects Biological effects: Endangers drinking-water supplies if allowed to enter soil or water.

: Discharge into the environment must be avoided. Avoid release to the environment. Do not

empty into drains.

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
ADR/RID	UN 1265	n-Pentane	3	II	Yes
IMDG	UN 1265	n-Pentane	3	II	Yes
IATA	UN 1265	n-Pentane	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.



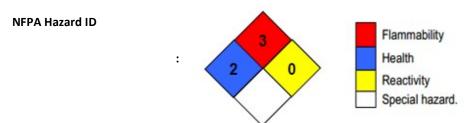
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16. OTHER INFORMATION:



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

Issue Date : 21/08/2025

Version : 01

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