

Offer Sheet

Product	n-pentane
Quantity	66 drums x 125 kg drums
Net weight	~19,100 lbs. (includes pallet)
Expiration date	Product does not expire
Availability	One time
Location	Tampa, FL 33619
Date	2/24/26
COA & SDS	Attached below



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n-Pentane is a low-boiling (bp ~36 °C), highly volatile C5 hydrocarbon used primarily as a **blowing agent, extraction solvent, and specialty process fluid**. It is a mid-volume petrochemical with strong demand in insulation and foam markets.

1) Polystyrene & Foam Blowing Agent (*largest industrial use*)

Primary global outlet

- Expanded polystyrene (EPS) production
- Extruded polystyrene (XPS) insulation
- Foam packaging materials
- Appliance and construction insulation

Why n-pentane is used

- Low boiling point
 - Clean vaporization
 - Good cell structure in foams
 - Lower environmental impact vs older CFCs
-

2) Polyurethane Foam Systems

- Auxiliary blowing agent in some PU foams
- Used in insulation board manufacture
- Refrigeration panel foam production
- Structural foam applications

(Less dominant than in EPS but still meaningful.)

3) Solvent Extraction Processes

Used where a **very low boiling solvent** is advantageous.

Applications

- Natural product extraction
- Specialty chemical purification
- Laboratory separations
- Oil and fat extraction (limited niche)

Why used

- Rapid evaporation
 - Non-polar solvency
 - Easy recovery by distillation
-

4) Electronic & Precision Cleaning

- Degreasing of sensitive components
- Flux removal in electronics
- Precision solvent blends
- Optical cleaning formulations

(Often blended with other hydrocarbons.)

5) Chemical Intermediate & Feedstock

- Component in **gasoline blending streams**
 - Petrochemical feedstock
 - Reference hydrocarbon in analytical chemistry
 - Used in specialty synthesis work
-

6) Refrigeration & Cooling Applications (limited)

- Working fluid in some specialty refrigeration systems
 - Calibration fluid in thermodynamic testing
 - Laboratory heat transfer studies
-

7) Aerosol & Specialty Propellant Blends (niche)

- Used in some hydrocarbon propellant systems
- Specialty spray formulations
- Industrial aerosol products



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N-PENTANE ANALYSIS REPORT

Material Name	N-Pentane
Country of origin	China
Batch No	LX202404NP
Production date	2024.04.26

Item	Unit	Specification	Test result
外观 Appearance		clear colorless	clear colorless
正戊烷 N-pentane	Wt%	99 min	99.6220
异戊烷 Iso-pentane	Wt%	balance	0.3450
重组分 Hexane and heavier	Wt%	0.2 max	0.03
轻组分 Butane and lighter	Wt%	0.2 max	N.D
硫 Sulfur	ppm	1 max	0.14
溴指数 Bromine index	mgBr/100g	20 max	7.63
悬浮物 Suspended matter		Free	Free
水分 Water content	ppm	20 max	16
密度 Specific Gravity	g/cm3	0.625-0.635	0.625

We certify that above statement of quality is true and correct.

Approval: Dou huanjie

Tester: Zhu guorui

Test date: APR 27th, 2024



Section 1. Substance name and company identification

1.1 Product identifier

Common name	n-Pentane
Chemical name	Normal Pentane
Chemical class	Alkane

1.2 Relevant identified uses of the substances or mixture and of the company/undertaking

Solvent, blowing agent for polystyrene, chemical intermediate

1.3 Details of the supplier of the safety data sheet

Manufacturer	Trecora Hydrocarbons, LLC 7752 FM 418 West Silsbee, Texas 77656 USA Tel: + 1 409-385-8300 E mail: Hydrocabons.Service@trecora.com
EU Only Representative	TSGE Concordia House, St James Business Park, Grimbald Crag Court, Knaresborough, North Yorkshire, HG5 8QB, United Kingdom Tel: +44 (0) 1423 799 633 Fax: +44 (0) 1423 797 804

1.4 Emergency telephone number

In case of emergency Tel. +1 703 527 3887 (CHEMTREC)

Section 2. Hazards Identification

2.1 GHS Classification

Flammable liquids, Category 2
Eye irritation, Category 2B
Specific target organ systematic toxicity-single exposure, Category 3
Aspiration hazard, Category 1
Acute aquatic toxicity, Category 2

2.2 GHS Label elements

Pictograms:



Signal Word: Danger

Hazard Statements

- H225 Highly flammable liquid and vapour
 H304 May be fatal if swallowed and enters airways
 H320 Causes eye irritation
 H336 May cause drowsiness or dizziness.

Precautionary statements

- P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
 P243+P240 Take precautionary measures against static discharge. Ground/bond container and receiving equipment.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
 P403+P235 Store in a well-ventilated place. Keep cool. Keep container tightly closed
 P370+P378 In case of fire: Use foam, carbon dioxide or dry powder for extinction.
 P501 Dispose of product/container in accordance with all applicable regulations.

Section 3. Composition

Name	EC No	CAS No	Concentration
n-Pentane	203-692-4	109-66-0	99% min
Isopentane	201-142-8	78-78-4	1% max

Section 4. First Aid Measures

4.1 Description of first aid measures

Inhalation

If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapour concentrations, remove victim to fresh air. If victim experiences continued breathing difficulties, keep patient warm and at rest, and seek medical attention. If breathing stops, begin artificial respiration and seek immediate medical attention.

Skin contact

If this product comes into contact with the skin, wash with soap and water. Seek medical attention if irritation persists. Remove and wash contaminated clothing before re-use.

Accidental eye contact

If this product comes into contact with the eyes, flush with large quantities of water for several minutes, while gently holding the eyelids open. Seek medical attention if irritation persists.

Ingestion

If this product is swallowed, DO NOT INDUCE VOMITING. Give small quantities (<250 ml) of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention

Notes to doctor/physician

Aspiration of solvent may cause chemical pneumonitis.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: n-pentane may cause dizziness and drowsiness if inhaled, and high concentrations may result in central nervous system depression, and loss of consciousness.

Ingestion: Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, n-pentane may be aspirated into the lungs, with a risk of chemical pneumonitis.

4.3 Indication of any immediate attention and special treatment needed

If ingested or inhaled seek medical attention immediately.

Section 5. Firefighting Measures

5.1 Extinguishing media

Small fires: Use foam, carbon dioxide or dry powder extinguisher.

Large fires: Use foam to extinguish fires. Water spray should not be used, as n-pentane is lighter than water and may form pools of burning liquid on top of water. Keep adjacent containers cool using water spray.

FIRE INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. (ERG, 2012)

FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. (ERG, 2012)

5.2 Special hazards arising from the substance or mixture

n-Pentane is extremely flammable. Remove all sources of ignition. Vapours are heavier than air and may travel considerable distances to a source of ignition and flash back. Vapor/air mixtures may be explosive. Electrostatic discharges may cause fire and/or explosion.

5.3 Advice for fire-fighters

Wear positive pressure Self Contained Breathing Apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all ignition sources and evacuate unnecessary personnel from the area. Ventilate the area if possible. Wear suitable protective clothing including solvent resistant gloves and coveralls. If vapor concentrations are high, respiratory protective equipment may be required. See section 8 for more information.

6.2 Environmental precautions

Prevent entry into sewers and watercourses. If product enters sewers or watercourses, inform the appropriate environmental authorities.

6.3 Method for cleaning up

Small spills: Remove all ignition sources. Use non-sparking hand tools. Take precautions to avoid electrostatic discharge. Absorb spillage in a non-combustible absorbent, e.g. sand or vermiculite, and place in a suitable container for disposal.

Large spills: Remove all ignition sources. Use non-sparking hand tools. Contain spill and cover if possible to reduce evaporation. Transfer to a suitable container by mechanical means. Take precautions to avoid static discharge, e.g. by grounding (earthing) containers, etc. Consider initial downwind evacuation for at least 300 meters (1,000 feet).

6.4 Reference to other sections

Refer to section 8 of SDS for personal protection details.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use only in well ventilated areas. n-Pentane is extremely flammable. Avoid contact with all ignition sources, including hot surfaces. Take precautions to avoid electrostatic discharges, such as grounding of containers and equipment, and restricting flow rates. Vapors are heavier than air and may accumulate in low lying areas and below ground areas such as ducts and sewers.

7.2 Condition for safe storage, including any incompatibilities

Store in a well ventilated area, away from all ignition sources. If stored in drums, keep out of direct sunlight.

Section 8. Exposure Controls/Personal Protection

8.1 Control parameters

Substance	TWA	Source, Type
n-Pentane	1000 ppm, 3000 mg/m ³	OSHA
n-Pentane	600 ppm, 1800 mg/m ³	ACGIH
Isopentane	600 ppm, 1800 mg/m ³	ACGIH

8.2 Exposure controls

Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids. General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required. Other special precautions such as respiratory masks or environmental containment devices may be required in extreme cases.

Respiratory protection

Use only in well ventilated area. If high exposure levels are likely, then suitable respiratory protection will be required. Very high vapor concentrations may result in oxygen displacement and self-contained breathing apparatus or airline may be required.

Hand Protection

Wear suitable chemical resistant gloves recommended for use with hydrocarbon solvent. Nitrile gloves may be suitable, but glove manufacturers' specifications should always be checked first. Natural rubber gloves are not suitable. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Wear suitable eye protection, safety glasses or goggles, when handling this product.

Skin protection

Aprons or coveralls made of fire retardant material are recommended. These should be changed after use or if contaminated. Wash before re-use.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Colorless Liquid
Odor:	Gasoline-like odor
Molecular weight:	72
pH:	not applicable
Melting point/freezing point:	-202°F/-130°C
Approximate boiling range :	90-100°F/32-38°C
Flash point:	-40°F/-40°C
Evaporation rate:	not applicable
Flammability limits in air	
Lower:	1.4 v%
Upper:	8.3 v%
Reid vapor pressure at 100°F:	16.0 psia
Relative vapor density (Air=1.0)	2.5
Density at 60°F:	0.63 kg/l
Solubility in water:	negligible
Partition Coefficient: n-octanol/water:	3.45
Auto-ignition temperature:	588°F/308°C
Viscosity:	not applicable
Oxidizing properties:	none

Sources of Information:

1. Company product testing
2. Hawley's Condensed Chemical Dictionary revised by N. Irving Sax and Richard J. Lewis, and
3. CHRIS directory

Section 10. Stability and Reactivity**10.1 Reactivity**

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Keep away from sources of ignition.

10.5 Incompatible materials

This product is incompatible with strong oxidizing agents, strong acids and bases, and selected amines.

10.6 Hazardous decomposition products

None

Section 11. Toxicological Information**11.1 Information on toxicological effects****Acute Toxicity:**

LD₅₀ (Rat, oral) >2000 mg.kg

LC₅₀ (Mouse, inhalation 295 mg/l/2 hour

LC₅₀ (Rat, inhalation) 364 g/m³/4 hour

Harmful when inhaled in high concentrations or ingested. n-pentane may cause dizziness and drowsiness if inhaled, and high concentrations may result in central nervous system depression, and loss of consciousness. Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, n-pentane may be aspirated into the lungs, with a risk of chemical pneumonitis.

Irritation: n-pentane can be irritating to the eye, may cause redness.

Corrosivity: Not corrosive

Sensitisation: Not known to be a sensitizer

Repeated dose toxicity: Prolonged or repeated contact of this product will result in defatting of the skin, causing dryness and cracking.

Carcinogenicity: Not expected to be carcinogenic.

Mutagenicity: Not expected to be mutagenic

Toxicity for reproduction: Not expected to be toxic to reproduction.

Route of exposure: Inhalation and ingestion

Symptoms related to the physical, chemical and toxicological characteristics: n-pentane may cause dizziness and drowsiness if inhaled and high concentrations may result in central nervous system depression, and loss of consciousness. Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, n-Pentane may be aspirated into the lungs, with a risk of chemical pneumonitis.

Section 12. Ecological Information

12.1 Toxicity

EC50 (*Oncorhynchus mykiss*, rainbow trout) 4.26 mg/l (96 hour)

EC50 (*Daphnia magna*) 2.7 mg/l (48 hour)

N-pentane is classified as toxic to aquatic organisms and likely to cause long term effects in the environment.

12.2 Persistence and degradability

N-pentane is readily biodegradable in aquatic systems, however, in view of its high evaporation rate, n-pentane is expected to volatilize rapidly from water sources into the atmosphere, where it will be degraded by photochemical reaction.

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No further details

Section 13. Disposal Considerations

13.1 Waste treatment methods

Recover and recycle product if possible. If recovery and recycling are not possible, n-pentane may be disposed of by incineration.

Please follow all local, regional, national and international laws.

Section 14. Transport Information

14.1 UN number

1265

14.2 USDOT (United States Department of Transportation) (Domestic)

USDOT Proper Shipping Name: Pentanes

Hazard Classification: 3, Packing Group: 1

Label: Flammable Liquid

Placard: Flammable Liquid

14.3 IMO/IMDG (International Maritime Dangerous Goods) (Water)

IMO Proper Shipping Name: Pentanes

Hazard Classification: 3, Packing Group: 1

Label: Flammable Liquid

14.4 IATA (International Air Transport Association)

Proper Shipping Name: Pentanes

Hazard Classification: 3, Packing Group: 1

Label: Flammable Liquid

14.5 ADR (Agreement on Dangerous Goods by Road (Europe))

Proper Shipping Name: Pentanes

Hazard Classification: 3, Packing Group: 1,

Environmentally Hazardous

Section 15. Regulatory Information

15.1 Clean Air Act

- This product neither contains nor was it manufactured with any class 1 or class 2 ozone depleting substances.
- Under Section 112 (r), 40 CFR Part 68, the threshold quantity for both n-pentane and isopentane is 10,000 lbs.

15.2 Emergency Planning and Community Right-to-Know Act (EPCRA)

- Section 302- This product does not contain any constituents that are classified as an extremely hazardous substance.
- Section 311/312 (Tier II) - This product is considered a fire hazard and an acute health hazard.
- Section 313- This product contains no toxic chemicals.

15.3 California Office of Environmental Health Hazard Assessment

- Proposition 65- This product contains none of the chemicals which may cause cancer or birth defects as listed in this legislation.

15.4 Coalition of Northeast Governors (CONEG)

- This product contains no lead, mercury, cadmium, or hexavalent chromium.

15.5 New Jersey Right-to-Know

- Normal pentane and isopentane both appear on this state's hazardous substance list.

15.6 Pennsylvania Right-to-Know

- Normal pentane and isopentane both appear on this state's hazardous substance list.

15.7 Toxic Substance Control Act (TSCA)

- All constituents of this product are listed in TSCA.

15.8 Other Inventories

- The constituents of this product are known to be listed on the following country inventories:
 - **Canada (DSL)**
 - **Japan (ENCS)**
 - **Australia (AICS)**
 - **Philippines (PICCS)**
 - **China (IECSC)**
 - **Korea (KECI)**

Section 16. Other Information

Hazard Ratings:

GHS:

Health: 4
Flammability: 1
Reactivity: 5

NFPA:

Health: 1
Fire: 4
Reactivity: 0
Specific Hazard: None

HMIS:

Health: 1
Flammability: 4
Reactivity: 0

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