

Heptane
L-F-T-N
Danger

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Ref. n° : 102 027
 Trade name : Heptane
 Company identification : JEULIN
 T: 02 32 29 40 50 - F: 02 32 29 43 99
 Z.I. N°1 - NETREVILLE BP1900
 27019 EVREUX France
 e-mail : support@jeulin.fr
 Emergency phone nr : 01 45 42 59 59
 Use : laboratory use

SECTION 2. Hazards identification

Classification EC 67/548 or EC 1999/45 : F; R11
 Xn; R65
 R67
 Xi; R38
 N; R50-53

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Hazard Class and Category Code

- Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam., Liq. 2)
- Health hazards : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2)
 Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3)
 Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1)
- Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1)
 Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1)

Label elements

• Hazard pictograms



- Signal words : Danger
- Hazard statements : H225 : Highly flammable liquid and vapour.
 H304 : May be fatal if swallowed and enters airways.
 H315 : Causes skin irritation.
 H336 : May cause drowsiness or dizziness.
 H410 : Very toxic to aquatic life with long lasting effects.
- Precautionary statements
 - General : P102 : Keep out of reach of children.
 - Prevention : P280 : Wear protective gloves/protective clothing/eye protection/face protection. P210 : Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 - Response : P301+P330+P331+P310+P321 : IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment. P302+P352 : IF ON SKIN: Wash with plenty of soap and water.



MATERIAL SAFETY DATA SHEET

Page : 2

Revision nr : 7

Date : 30 / 11 / 2010

Supersedes : 4 / 6 / 2007

Heptane

L-F-T-N

SECTION 2. Hazards identification (continued)

- Storage : P403 : Store in a well-ventilated place.
- Disposal considerations : P501 : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 3. Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EC	EC index	REACH	CERTIFICATE
Heptane	100 ca %	142-82-5	205-563-8	601-008-00-2	----	F; R11 Xn; R65 R67 Xi; R38 N; R50-53 ----- Flam. Liq. 2 (H225) Asp. Tox 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

SECTION 4. First aid measures

- Inhalation : **If breathing is difficult, give oxygen.**
: If you feel unwell, seek medical advice. Assure fresh air breathing. If not breathing, give artificial respiration.
- Skin contact : Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes.
- Eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : **Do not induce vomiting.**
: **May result in aspiration into the lungs.**
: **Seek medical attention immediately.**

SECTION 5. Fire-fighting measures

- Prevention : Take precautionary measures against static discharges. No naked lights. No smoking. Keep away from heat.
- Extinguishing media : Carbon dioxide. Foam. Powder.
- Suitable : Water.
- Not to be used
- Special exposure hazards : Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Vapour mixes readily with air, forming explosive mixtures. Under fire conditions, hazardous fumes will be present.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures : Avoid (reject) fire-fighting water to enter environment.

SECTION 6. Accidental release measures

- Environmental precautions : Prevent entry to sewers and public waters.
- After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. (ex: Vermiculite JEULIN réf. 150 039, absorbant pour liquides JEULIN réf. 150 027)
Flush/dilute residue with water.
- For emergency responders : Evacuate and limit access.
Wear recommended personal protective equipment.
- Technical measures : Eliminate every possible source of ignition.

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MATERIAL SAFETY DATA SHEET

Page : 3

Revision nr : 7

Date : 30 / 11 / 2010

Supersedes : 4 / 6 / 2007

Heptane

L-F-T-N

SECTION 7. Handling and storage

- Precautions in handling and storage** : Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Handling** : Wear suitable protective clothing.
Avoid all unnecessary exposure.
Do not breathe gas, fumes, vapour or spray.
- Storage** : Close container tightly after use.
Store in dry, cool, well-ventilated area.
Keep away from heat. (+15°C / +25°C)

SECTION 8. Exposure controls/personal protection

- Personal protection** : Avoid all unnecessary exposure.
- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection** : Wear suitable gloves resistant to chemical penetration.
- Skin protection** : Wear suitable protective clothing.
- Eye protection** : Chemical goggles or safety glasses.
- Others** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Provide good ventilation in process area to prevent formation of vapour.
- Exposure controls**
- France** : VME : 400 ppm (1668mg/m3).

SECTION 9. Physical and chemical properties

- Chemical name** : n-Heptane - Heptane
- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Characteristic.
- pH value** : No data available.
- Molecular weight** : 100,20
- Melting point [°C]** : -90,6
- Initial boiling point [°C]** : (1015 hPa) : 98,4
- Density** : (20 °C) : 0,68
- Vapour pressure [hPa]** : (22°C) : 5,33
- Relative vapour density (air=1)** : 3,52
- Viscosity at 20°C [mPa.s]** : 0,42
- Solubility in** : Acetone. (20 °C) : soluble
Ethanol. (20°C) : soluble
Water. (20 °C) : 3µg/ml
- Flash point [°C]** : -4
- Auto-ignition temperature [°C]** : 215
- Explosion limits - lower [%]** : 1,1
- Explosion limits - upper [%]** : 6,7
- Log P octanol / water at 20°C** : 4,66



MATERIAL SAFETY DATA SHEET

Page : 4

Revision nr : 7

Date : 30 / 11 / 2010

Supersedes : 4 / 6 / 2007

Heptane

L-F-T-N

SECTION 10. Stability and reactivity

- Conditions to avoid** : Sparks. Open flame. Heat. Take precautionary measures against static discharges.
- Materials to avoid** : Oxidizing.
Strong oxidizers.
- Hazardous decomposition products** : Carbon monoxide.
- Hazardous properties** : Fire/explosion hazard. Vapour mixes readily with air, forming explosive mixtures.

SECTION 11. Toxicological information

- Acute toxicity**
- Inhalation : Vapours may cause drowsiness and dizziness.
 - Dermal : Skin irritation. Repeated or prolonged skin contact may cause dermatitis and defatting.
 - Ocular : Minor eye irritation.
 - Ingestion : Irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion of this product may lead to chemical pneumonia and even death. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.
- Other : Other toxic properties can not be excluded.
- Rat oral LD50 [mg/kg]** : > 15000 - CL50 Inhalation : 103 g/m³/4h.
- Dermal irritation (rabbit)** : No data available.
- Eyes irritation (rabbit)** : No data available.
- Mucous membrane irritation (rabbit)** : No data available.
- Chronic toxicity**
- Mutagenicity** : Not expected to be toxic.
- Ames test : Mutagenicity tests are negative.
 - E. Coli test : Mutagenicity tests are negative.
- Other toxicological information** : Other toxic properties can not be excluded. Observe all precautions for handling chemicals. For more toxicological informations, read the INRS data sheet # : 168.

SECTION 12. Ecological information

- Ecological effects information** : Very toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
Avoid release to the environment.
- ThOD (gO₂/g)** : 3,5 g/g
- BOD** : 55 %
- Bioaccumulative potential** : Log P (o / w) > 3: Risk of bioaccumulation predicted.
May cause long-term adverse effects in the environment.
- Information on elimination** : **Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**

SECTION 13. Disposal considerations

- Disposal** : Dispose of this material and its container at hazardous or special waste collection point. Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes.
Do not re-use empty container.
Dispose in a safe manner in accordance with local/national regulations.
- : **Do not empty into drains.**
- Waste-disposal procedures** : Refer to the MSDS before handling or disposing.



MATERIAL SAFETY DATA SHEET

Page : 5

Revision nr : 7

Date : 30 / 11 / 2010

Supersedes : 4 / 6 / 2007

Heptane

L-F-T-N

SECTION 14. Transport information

- Proper shipping name : 1206 HEPTANES, 3, II, ADR
- UN No. : 1206
- H.I. nr : 33
- ADR/RID : Class : 3
Group : II

Sea transport

- GGVE/GGVSee class
- IMO-IMDG code : UN 1206 Heptane
- Class : 3
- Packing group : II

Air transport

- ICAO/IATA : UN 1206 Heptanes
- IATA - Class or division : 3
- IATA Packing group : II

SECTION 15. Regulatory information

- Other : None.

SECTION 16. Other information

- R Phrase(s) : R11 : Highly flammable.
R38 : Irritating to skin.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 : Harmful : may cause lung damage if swallowed.
R67 : Vapours may cause drowsiness and dizziness.

The contents and format of this MSDS are in accordance with Regulation (EC) N°1907/2006.

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