

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: HEXANE
REACH registered number(s): 01-2119474209-33-XXXX
EINECS number: 925-292-5
Synonyms: HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH

Relevant identified uses of the substance or mixture and uses advised against:

Use of substance / mixture: Industrial Solvent.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: Asp. Tox. 1: H304; STOT RE 2: H373; Aquatic Chronic 2: H411; Flam. Liq. 2: H225; Repr. 2: H361f; Skin Irrit. 2: H315; STOT SE 3: H336

Most important adverse effects: Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Label elements:

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.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

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Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Signal words: Danger

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P331: Do NOT induce vomiting.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P391: Collect spillage.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site.

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Hazardous ingredients: HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH - REACH registered number(s): 01-2119474209-33-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
925-292-5	-	-	Flam. Liq. 2: H225; STOT SE 3: H336; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Repr. 2: H361f; STOT RE 2: H373; Asp. Tox. 1: H304	>98%

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4. FIRST AID MEASURES

Description of first aid measures:

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Get medical attention promptly if symptoms occur after washing.
- Eye contact:** Bathe the eye with running water for 15 minutes. Get medical attention promptly if symptoms occur after washing.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Give milk instead of water if readily available. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Get medical attention if irritation persists or develops.

Most important symptoms and effects, both acute and delayed:

- Skin contact:** There may be mild irritation at the site of contact. Repeated exposure may cause skin dryness or cracking.
- Eye contact:** There may be irritation and redness.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
- Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed:

- Immediate / special treatment:** Treat Symptomatically.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Foam. Carbon dioxide. Dry chemical powder. Sand. Dolomite or other inert material. Do not use high pressure water jet as this may spread burning material.

Special hazards arising from the substance or mixture:

- Exposure hazards:** In combustion emits toxic fumes.

- Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Contain the spread of the firefighting media. Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

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Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up:

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Use non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Specific end use(s): No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Workplace exposure limits: No data available.

DNEL/PNEC Values:

Hazardous ingredients: HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	20 mg/m ³	General Population	Systemic
DNEL	Dermal (repeated dose)	13 mg/kg bw/day	Workers	Systemic
DNEL	Dermal (repeated dose)	7 mg/kg bw/day	General Population	Systemic
DNEL	Oral (repeated dose)	6 mg/kg bw/day	General Population	Systemic

Exposure controls:

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: If ventilation is insufficient suitable respiratory protection must be provided. Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Avoid release to the environment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State:	Liquid
Colour:	Colourless
Odour:	Hydrocarbons
Evaporation rate:	No data available
Oxidising:	No data available
Solubility in water:	Insoluble
Also soluble in:	Most organic solvents
Viscosity:	No data available
Boiling point/range°C:	65-77
Melting point/range°C:	<-20
Flammability limits %:	lower: 1.2 upper: 8.3
Flash point°C:	-18
Part.coeff. n-octanol/water:	2.2 - 5.2
Autoflammability°C:	>200
Vapour pressure:	19 to 50 kPa
Relative density:	No data available
pH:	No data available
VOC g/l:	No data available
Other information:	No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid: Heat. Flames. Sources of ignition.

Incompatible materials:

Materials to avoid: No additional information available.

Hazardous decomposition products:

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

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11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Hazardous ingredients:

HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH

DERMAL	RBT	LD50	5	ml/kg
ORAL	RAT	LD50	25	ml/kg
VAPOURS	RAT	4H LC50	73860	ppm

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Reproductive toxicity	-	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact:	There may be mild irritation at the site of contact. Repeated exposure may cause skin dryness or cracking.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

12. ECOLOGICAL INFORMATION

Toxicity:

Hazardous ingredients:

HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH

ALGAE	72H EL50	9.902	mg/l
DAPHNIA	48H EL50	23.35	mg/l
FISH	96H LL50	13.37	mg/l

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility in soil:

Mobility: Readily absorbed into soil.

Results of PBT and vPvB assessment:

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

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13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN1208

UN proper shipping name:

Shipping name: HEXANES
(HYDROCARBONS, C6, N-ALKANES, ISO-ALKANES, CYCLICS, N-HEXANE RICH)

Transport hazard class(es):

Transport class: 3

Packing group: II

Environmentally hazardous: Yes

Marine pollutant: Yes

Special precautions for user:

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Specific regulations: Not applicable.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: 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.
H361f: Suspected of damaging fertility.
H373: May cause damage to organs ([nervous system]) through prolonged or repeated exposure ([inhalation (vapour)]).
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.