

SAFETY DATA SHEET

N-HEXANE

1. Identification of the substance/preparation and of the company or firm

- 1.1 Identification of the substance or preparation:
Catalogue no. : KA2508
Product name : n-Hexane
- 1.2 Use of the substance/preparation: For laboratory utilisation, analysis, research and fine chemistry.
- 1.3 Identification of the company or firm: Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia
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2. Identification of dangers

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Reproductive toxicity - Fertility - Category 2 - Warning (CLP : Repr. 2) H361 Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335 Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 - Warning (CLP : STOT SE 3) H336 Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373 Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1) H304 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

Classification EC 67/548 or EC 1999/45

Symbol(s) N Dangerous for the environment

Xn Harmful

F Highly flammable

R Phrase(s) R62 : Possible risk of impaired fertility

R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

R38 : Irritating to skin.

R11 : Highly flammable.

R65 : Harmful : may cause lung damage if swallowed.

R67 : Vapours may cause drowsiness and dizziness.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrase(s) S2 : Keep out of the reach of children.☑

S9 : Keep container in a well-ventilated place.☑

S16 : Keep away from sources of ignition - No smoking.

S29 : Do not empty into drains.

S33 : Take precautionary measures against static discharges.☑

S36/37 : Wear suitable protective clothing and gloves.☑

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

Signal words : Danger

Hazard pictograms



Hazard statements :

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361f Suspected of damaging fertility.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use.

P201: Obtain special instructions before use.

Prevention:

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking

P233 Keep container tightly closed.

	P240 Ground/bond container and receiving equipment.
	P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.
	P260: Do not breathe dust, fume, gas, mist, vapours, spray
	P264: Wash thoroughly after handling.
	P243 Take precautionary measures against static discharge.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves, protective clothing, eye protection, face protection.
Response:	P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.
	P302+P352: IF ON SKIN : Wash with plenty of soap and water.
	P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
	P308+P313: If exposed or concerned : get medical advice.
	P314: Get medical advice if you feel unwell.
	P332+P313: If skin irritation occurs : Get medical advice.
	P363: Wash contaminated clothing before reuse.
	P370+P378: In case of fire: Use for extinction.
	P391: Collect spillage.
Storage :	P403+P233: Store in well-ventilated place. Keep container tightly closed.
	P403+P235: Store in well-ventilated place. Keep cool.
	P405: Store locked up.
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.

3. Composition/information on ingredients

Substance / Preparation:	n-Hexane ≤ 100%
	Formula: C ₆ H ₁₄
	CAS No : 110-54-3
	EC No : 203-777-6

4. First-aid measures

4.1 General indications:	Never provide drink or induce vomiting in the event of loss of consciousness.
4.2 Inhaling:	Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration.
4.3 Contact with the skin:	Wash with plenty of water. Remove contaminated clothing.
4.4 Eyes:	Wash with plenty of water, keeping eyelids open. Seek immediate medical assistance.
4.5 Ingestion:	Avoid vomiting. Seek immediate medical assistance.

5. Fire-fighting measures

- 5.1 Suitable fire-extinguishing means: Foam. Dry powder.
- 5.2 Fire-fighting means which must NOT be used: No specific data.
- 5.3 Special risks: Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level.
May form explosive mixtures with the air.
- 5.4 Protective equipment: Suitable clothing and footwear.

6. Accidental release measures

- 6.1 Individual precautions: Do not inhale the fumes.
- 6.2 Precautions for care of the environment: Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods for collection/cleaning: Collect up with absorbent materials or, if none available, dry sand or earth and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

- 7.1 Handling: Avoid the formation of electrostatic charges.
- 7.2 Storage: Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Room temperature.
Do not store in plastic containers.

8. Exposure controls/personal protection

- 8.1 Technical protective measures: Ensure good ventilation and renewal of the air in the premises.
- 8.2 Exposure limit control: Data not available.
- 8.3 Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- 8.4 Hand protection: Use suitable gloves

9. Physical and chemical properties

Appearance:	liquid
Colour:	Colourless
Odour:	Gasoline-like
pH value:	No data available.
Melting Point:	-95 °C
Boiling Point:	68-70 °C
Flash point:	-23 °C
Flammability (solid, gas) :	Highly flammable liquid and vapour. Flammable.
Evaporation rate :	No data available.
Vapour pressure:	No data available.
Vapour density :	2.97
Solubility:	Immiscible with water.
Density:	0.678
Relative density, gas (air=1) :	No data available.
Relative density, liquid (water=1) :	No data available.
Viscosity @ at 40°C [mm ² /s] :	0.31 mPas 20 °C

10. Stability and reactivity

10.1 Conditions which should be avoided:	High temperatures.
10.2 Matter which should be avoided:	Strong oxidant agents.
10.3 Hazardous decomposition products:	No specific data.
10.4 Complementary information:	The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:	LD50 oral rat : 28.710 mg/kg LC L0 inh mus : 120000 mg/m3
11.2 Dangerous effects for health:	If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: Risk of cutaneous absorption. Through contact with the eyes: irritations Risk of sight disorders If swallowed: nausea Due to absorption: dizziness tiredness narcosis Prolonged exposure causes effects on the central nervous system paralysis

12. Ecological information

12.1 Toxicity:	Toxic to aquatic life with long lasting effects.
12.2 Persistence and Degradability:	May cause long-term adverse effects in the environment.
12.3 Bioaccumulative potential:	Not established.
12.4 Mobility in soil:	Not established.
12.5 Results of PBT and vPvB assessment :	The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6 Other possible effects on the environment:	Avoid release to the environment.

13. Disposal considerations

Disposal considerations:	Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. ☑ Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contaminated containers:	Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

14. Transport information

14.1 Overland (ADR):	Technical name: HEXANES UN 1208 Class: 3 PELIG.M.AMB Packaging group: II (D/E)
14.2 By sea (IMDG):	Technical name: HEXANES UN 1208 Class: 3 PELIG.M.AMB Packaging group: II
14.3 By air (ICAI-IATA):	Technical name: HEXANES UN 1208 Class: 3 PELIG.M.AMB Packaging group: II Packaging instructions: CAO 364 PAX 353

15. Regulatory information

5.1 Regulatory Information:	Ensure all national/local regulations are observed.
5.2 Poisons Schedule:	Not Scheduled
5.3 Hazard Category:	Harmful,Irritant,Highly Flammable

16. Other Information

Abbreviations and acronyms :	PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
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Date published:	1-Jun-2016
Further information :	None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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