

SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Jun 01, 2022

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

1.1 Product identifier

Product name n-HEXANE 99% CAS-No. 110-54-3

Product code AH1087, AR1085, GP1085, IR1085, LC1085, LC1086, LV1085,

PC1085, RP1085

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

Identified uses Chemical for analysis and production

1.3 Details of the supplier of the safety data sheet

Company ChemSupply Australia Pty Ltd

38 - 50 Bedford Street, Gillman SA 5013 Australia

Telephone number (08) 8440 2000 Fax number (08) 8440 2001

1.4 Emergency Telephone Number

Emergency phone

Monday - Friday 8:30am - 5:00pm ACST (08) 8440 2000

After hours: CHEMCALL 1800127406 / +6449179888

1.5 Manufacturer

Company RCI LABSCAN LIMITED.

24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to WHS Regulations (Australia)

Flammable liquids (Category 2), H225

Skin irritation (Category 2), H315

Reproductive toxicity (Category 2), H361f

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Specific target organ toxicity - repeated exposure (Category 2), H373

Aspiration hazard (Category 1), H304 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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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.
Precautionary statement(s)	
P203	Obtain, read and follow all safety instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe fume/gas/mist/vapours/spray.
P264	Wash hand thoroughly after handling.
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.
P301 + P316	IF SWALLOWED: Get emergency medical help immediately.
P302 + P352	IF ON SKIN: Wash with plenty water.
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.
P318	IF exposed or concerned: Get medical advice.
P319	Get medical help if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P317	If skin irritation occurs: Get medical help.

2.3 Other hazards None

SECTION 3: Composition/information on ingredients

3.1 Substances

P362 + P364

P403 + P235

P391

P405

11220

Synonyms Hexyl hydride, n-Hexyl hydride, Hexane, n-Carproylhydride.

Collect spillage.

Store locked up.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 110-54-3 203-777-6 601-037-00-0 CH₃(CH₂)₄CH₃ 86.18 g/mol >99

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool.

Hazardous ingredients according to WHS Regulations (Australia)

Component	Concentration	Classification
n-Hexane		
CAS-No 110-54-3 EC-No 203-777-6 EC-Index-No 601-037-00-0	>99%	Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Reproductive toxicity (Category 2), H361f Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 Specific target organ toxicity - repeated exposure
		(Category 2), H373 Aspiration hazard (Category 1), H304
		Chronic aquatic toxicity (Category 2), H411

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For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of

shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose.

Use suitable instruments/apparatus.

Skin contact Remove contaminated clothing and wash affected skin with soap and water. If signs of

poisoning appear, treat as for inhalation. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.

If the substance has got into the eyes, immediately wash out with plenty of water at least

15 minutes. Obtain medical attention.

Ingestion Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath,

give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an

unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

After swallowing: avoid vomiting. Risk of aspiration. Keep airways free. Subsequently administer: Activate charcoal 20-40 g in 10% slurry. No milk, no alcohol. Obtain medical attention.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Eye contact

Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

5.2 Special hazards arising from the substance or mixture

Vapors may form explosive mixture with air at ambient temperature. Flash back possible over considerable distance.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

5.4 Hazchem Code

3YE

5.5 Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

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6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

6.4 Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit (Safe Work Australia)

TWA: 20 ppm (72 mg/m³) STEL: Not Available

8.2 Exposure controls

Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Individual protection measures (Personal protective equipment, PPE) Eye/face protection

Goggles giving complete protection to eyes.

Skin protection

Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes. Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it..

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter A (EN 141 or EN 14387).

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Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: From Liquid : Color Colorless

Odour Ddour Threshold Not Available pH Not Available

Melting point/range -94.3°C
Boiling point/range 69°C

Flash point -22 °C (closed cup)
Evaporation rate Not Available
Flammability (solid, gas) Not Available
Explosion limits: lower 1 %(V)
upper 8.1 %(V)

Vapour Pressure 160 hPa at 20°C

Relative vapour density 2.79

Density 0.660 g/ml at 20°C Water solubility 0.0095 g/l at 20°C Partition coefficient (n-octanol/water) log Pow: 4.11 Auto-Ignition temperature 240 °C Decomposition Temperature Not Available

Viscosity

0.326 mPa.s at 20°C
Explosive properties

Not Available

Not Explosive

Oxidizing properties The substance or mixture is not classified as oxidizing

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Risk of explosion in contact with strong oxidizing agents and dinitrogen tetroxide.

The substance can react dangerously with halogens and sodium peroxide.

10.4 Conditions to avoid

Heat, Flames and sparks (Risk of explosion).

10.5 Incompatible materials

Strong oxidizing agents, dinitrogen tetroxide, halogens and sodium peroxide.

Unsuitable working materials: Various plastics, rubber

10.6 Hazardous decomposition products

Carbon monoxides, Carbon dioxides, (Hazardous decomposition products from under fire condition).

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LC₅₀ (inhalation, rat): 171.6 mg/kg LD₅₀ (dermal, rabbit): >2000 mg/kg LD₅₀ (oral, rat): 25000 mg/kg

Acute oral toxicity

Nausea

Acute inhalation toxicity

Irritation symptoms in the respiratory tract, drowsiness.

Skin corrosion/irritation

Irritations. Danger of skin absorption.

Serious eye damage/eye irritation

Slight irritations. Risk of corneal clouding.

Respiratory or skin sensitization

Not Available

Germ cell mutagenicity

Bacterial mutagenicity; Salmonella typhimurium is negative.

Carcinogenicity

Not Available

Reproductive toxicity

Animal experiments suggest that the substance may lead to an impairment of reproductive performance also man.

Teratogenicity

Suspected of damaging the unborn child

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness (Nervous system).

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure(Nervous system).

Aspiration hazard

May cause pneumonia or chemical pneumonitis

Further information

After accidental swallowing the substance may pose a risk of aspiration. Passage into the lung (vomiting) can result in a condition resembling pneumonia (chemical pneumonitis). After absorption: drowsiness, tireness, narcosis, CNS disorders, paralysis symptoms.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC_{50} Pimephales promelas: 2.5 mg/l/ 96h Toxicity to daphnia EC_{50} Daphnia magna: 2.1 mg/l /48h

and other aquatic invertebrates

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12.2 Persistence and degradability

Biodegradability Not Available

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) log Pow: 4.11

Bioaccumulation potencial is to be expected (log Po/w >3)

12.4 Mobility in soil

Not Available

12.5 Other adverse effects

Toxic to aquatic life. Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information

Land Transport (ADR/RID)

UN Number 1208 UN proper shipping name HEXANES Transport hazard class(es) 3

Hazchem Code 3YE
Packing group II
Environmental hazards Yes
Special precautions for user Yes

Sea transport (IMDG)

UN Number 1208 UN proper shipping name HEXANES

Transport hazard class(es)

Packing group

Marine pollutant

Special precautions for user

EmS

Yes

F-E S-D

Air transport (IATA)

UN Number 1208 UN proper shipping name HEXANES

Transport hazard class(es) 3
Packing group II
Environmental hazards Yes
Special precautions for user No

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River transport (AND/ADNR)

(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule S5

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 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 through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Recommended restrictions

Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge.

Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

Further information

Contact ChemSupply Australia Pty Ltd Ph. (08) 8440 2000.

Revision Date

01/06/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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