

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

**1.1 Product identifier**

Product name	n-HEXANE 95%
CAS-No.	110-54-3
Product code	AR1083, GP1083, LC1083, LC1084, LV1083, PC1083, PC1359X, RP1083

**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.

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.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

**2.3 Other hazards** None

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

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

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
110-54-3	203-777-6	601-037-00-0	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>4</sub> CH <sub>3</sub>	86.18 g/mol	>95

#### Hazardous ingredients according to WHS Regulations (Australia)

Component	Concentration	Classification
<b>n-Hexane</b>		
CAS-No 110-54-3 EC-No 203-777-6 EC-Index-No 601-037-00-0	>95%	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.

## 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.
Eye contact	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

#### 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.

**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/m<sup>3</sup>)  
 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).

**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	Benzene like
Odour 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 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).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LC<sub>50</sub> (inhalation, rat): 171.6 mg/kg

LD<sub>50</sub> (dermal, rabbit): >2000 mg/kg

LD<sub>50</sub> (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, tiredness, narcosis, CNS disorders, paralysis symptoms.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

LC<sub>50</sub> Pimephales promelas: 2.5 mg/l/ 96h

Toxicity to daphnia

EC<sub>50</sub> Daphnia magna: 2.1 mg/l /48h

and other aquatic invertebrates

**12.2 Persistence and degradability**

Biodegradability Not Available

**12.3 Bioaccumulative potential**

Partition coefficient (n-octanol/water) log Pow: 4.11  
 Bioaccumulation potential 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)	3
Packing group	II
Marine pollutant	Yes
Special precautions for user	Yes
EmS	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

**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

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	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.