

**Hexane****213-4**

Version 1.1 1

Revision Date 12/22/2017

Print Date 06/28/2019

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Hexane

SDS Number : 000000011372

Product Use Description : Solvent

Manufacturer or supplier's details : CHEM-SUPPLY Pty Ltd  
38-50 Bedford St.  
Gillman SA 5013, Australia

For more information call : +61 8 8440 2000  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
:  
: **CHEMTREC in Australia: +(61)-290372994**  
: (24 hours/day, 7 days/week)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification of the substance or mixture : Flammable liquids, Category 2  
Skin irritation, Category 2  
Reproductive toxicity, Category 2  
Specific target organ toxicity - single exposure, Category 3  
Specific target organ toxicity - repeated exposure, Category 2,  
Central nervous system, Peripheral nervous system  
Aspiration hazard, Category 1  
Acute aquatic toxicity, Category 2  
Chronic aquatic toxicity, Category 2

**GHS Label elements, including precautionary statements**

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Symbol(s)

:



Signal word

: Danger

Hazard statements

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

Precautionary statements

: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF exposed or concerned: Get medical advice/ attention.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
Collect spillage.

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**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
Keep cool.  
Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>6</sub>H<sub>14</sub>

Chemical nature : Substance

CAS-No. : 110-54-3

**Hazardous components**

Chemical name	CAS-No.	Concentration
n-Hexane	110-54-3	> 60%
Other Hexanes		< 40%

**4. FIRST AID MEASURES**

Inhalation : Call a physician immediately.  
Remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Use oxygen as required, provided a qualified operator is present.

Skin contact : Wash off immediately with plenty of water for at least 15 minutes.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
Call a physician.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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- Call a physician.
- Ingestion : Do not induce vomiting without medical advice.  
If a person vomits when lying on his back, place him in the recovery position.  
Call a physician immediately.  
Never give anything by mouth to an unconscious person.
- Notes to physician : Treat symptomatically.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Cool closed containers exposed to fire with water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Highly flammable.  
Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : HAZCHEM CODE: 3YE

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear personal protective equipment. Unprotected persons must be kept away.  
Immediately evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.

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Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
Discharge into the environment must be avoided.  
Do not flush into surface water or sanitary sewer system.  
Do not allow run-off from fire fighting to enter drains or water courses.

Methods for cleaning up : Ventilate the area.  
No sparking tools should be used.  
Use explosion-proof equipment.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Keep container tightly closed.  
Do not smoke.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.  
Take precautionary measures against static discharges.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Use explosion-proof equipment.  
Keep product and empty container away from heat and sources of ignition.  
No sparking tools should be used.  
No smoking.

**Storage**

Requirements for storage areas and containers : Store in area designed for storage of flammable liquids.  
Protect from physical damage.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep away from heat and sources of ignition.

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Keep away from direct sunlight.  
 Store away from incompatible substances.  
 Container hazardous when empty.  
 Do not pressurize, cut, weld, braze, solder, drill, grind or  
 expose containers to heat or sources of ignition.

Materials to avoid : Oxidizing agents, Halogens, Oxygen, May attack many  
 plastics, rubbers and coatings.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
n-Hexane	110-54-3	TWA : Time Weighted Average (TWA):	20 ppm 72 mg/m <sup>3</sup>	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

### Engineering measures

Use with local exhaust ventilation.  
 Prevent vapour buildup by providing adequate ventilation during and after use.

### Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory  
 equipment.  
 For rescue and maintenance work in storage tanks use self-  
 contained breathing apparatus.  
 Use NIOSH approved respiratory protection.

Hand protection : Solvent-resistant gloves  
 Gloves must be inspected prior to use.  
 Replace when worn.

Eye protection : Do not wear contact lenses.  
 Wear as appropriate:  
 Safety glasses with side-shields  
 If splashes are likely to occur, wear:  
 Goggles or face shield, giving complete protection to eyes

Skin and body protection : Wear as appropriate:  
 Solvent-resistant apron  
 Flame retardant antistatic protective clothing.  
 If splashes are likely to occur, wear:

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Hygiene measures	Protective suit : When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid, clear
Colour	: colourless
Odour	: mild hydrocarbon-like
pH	: Note: Not applicable
Melting point/range	: -95 °C
Boiling point/boiling range	: 68.7 °C
Flash point	: -15 °F (-26 °C) Method: closed cup
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 7.7 %(V)
Vapour pressure	: 165.32 hPa at 20 °C(68 °F)
Vapour density	: 3 Note: (Air = 1.0)

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Density : 0.659 - 0.673 g/cm<sup>3</sup> at 20 °C

Water solubility : Note: negligible

Ignition temperature : 225 °C

Molecular weight : 86.18 g/mol

**10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Heat, flames and sparks.  
Keep away from direct sunlight.

Incompatible materials to avoid : Oxidizing agents  
Halogens  
Oxygen  
May attack many plastics, rubbers and coatings.

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 25,000 mg/kg  
Species: Rat  
Test substance: n-Hexane



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- Acute inhalation toxicity : LC50: 48000 ppm  
Exposure time: 4 h  
Species: Rat  
Test substance: n-Hexane
- Acute dermal toxicity : LD50: 3,000 mg/kg  
Species: Rabbit  
Test substance: n-Hexane
- Skin irritation : Species: Rabbit  
Result: irritating  
Test substance: n-Hexane
- Eye irritation : Species: Rabbit  
Result: slight irritation  
Test substance: n-Hexane
- Repeated dose toxicity : Species: Rat  
Application Route: Inhalation  
Exposure time: 8 d  
Test substance: n-Hexane  
Note: central nervous system effects structural abnormalities in sperm 5,000 ppm
- : Species: Rat  
Application Route: Oral  
Exposure time: 90 d  
LOAEL (Lowest observed adverse effect level): 1,140 mg/kg  
Test substance: n-Hexane  
Note: central nervous system effects testicular effects No observed adverse effect level
- : Species: Rat  
Application Route: Oral  
Exposure time: 90 d  
LOAEL (Lowest observed adverse effect level): 4,000 mg/kg  
Test substance: n-Hexane  
Note: central nervous system effects testicular effects Lowest observed adverse effect level
- : Species: Rat  
Application Route: Inhalation  
Test substance: n-Hexane  
Note: Developmental Toxicity NOAEL (maternal toxicity) 1000 ppm NOAEL (developmental toxicity) 5,000 ppm

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- Genotoxicity in vitro : Test substance: n-Hexane  
Note: In vitro tests did not show mutagenic effects
- Genotoxicity in vivo : Test substance: n-Hexane  
Note: In vivo tests did not show mutagenic effects

**12. Ecological information****Toxicity**

- Toxicity to fish : LC50: 4.14 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Test substance: n-Hexane
- : LC50: 2.5 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
Test substance: n-Hexane
- : LC50: 4.12 mg/l  
Exposure time: 96 h  
Species: Lepomis macrochirus (Bluegill sunfish)  
Test substance: n-Hexane
- Toxicity to daphnia and other aquatic invertebrates : LC50: 3.87 mg/l  
Exposure time: 96 h  
Species: Daphnia magna (Water flea)  
Test substance: n-Hexane

**Other adverse effects**

- Additional ecological information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Should not be released into the environment.

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**13. DISPOSAL CONSIDERATIONS**

Product : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION****ADR**

UN/ID No. : UN 1208  
Description of the goods : HEXANES  
Class : 3  
Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

**IATA**

UN/ID No. : UN 1208  
Description of the goods : Hexanes  
Class : 3  
Packing group : II  
Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353  
Packing instruction (passenger aircraft) : Y341

**IMDG**

UN/ID No. : UN 1208  
Description of the goods : HEXANES  
Class : 3  
Packing group : II  
Labels : 3  
EmS Number 1 : F-E  
EmS Number 2 : S-D

Marine pollutant : yes

HAZCHEM CODE: 3YE

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**15. REGULATORY INFORMATION****National regulatory information**

Standard for the Uniform : Schedule 5  
Scheduling of Medicines and  
Poisons

**Other international regulations****Notification status**

US. Toxic Substances : On TSCA Inventory  
Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory  
(Notification and  
Assessment) Act

Canada. Canadian : All components of this product are on the Canadian DSL  
Environmental Protection Act  
(CEPA). Domestic  
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals : On the inventory, or in compliance with the inventory  
Inventory (KECI)

Philippines. The Toxic : On the inventory, or in compliance with the inventory  
Substances and Hazardous  
and Nuclear Waste Control  
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory  
Chemical Substances

New Zealand. Inventory of : On the inventory, or in compliance with the inventory  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand

**16. OTHER INFORMATION**

**Sources of key data used to compile the Safety Data Sheet:**

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1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

**Further information**

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 a 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.

Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by:  
Honeywell Performance Materials and Technologies Product Stewardship Group

End of Safety Data Sheet