99% n-Heptane

207-4

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	99% n-Heptane
SDS Number	:	000000011371
Product Use Description	:	Solvent
Manufacturer or supplier's details	:	CHEMSUPPLY AUSTRALIA 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
Specific target organ toxicity - single exposure, Category 3, narcotic effect
Aspiration hazard, Category 1
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word	:	Danger
Hazard statements	:	Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	**Prevention:** 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. Avoid breathing 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. Wear respiratory 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. Call a POISON CENTER/ doctor if you feel unwell. 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. **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 : C7H16

Chemical nature : Substance

CAS-No. : 142-82-5

Hazardous components

Chemical name	CAS-No.	Concentration
Heptane	142-82-5	<= 100%

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.
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 (CO2) 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 (CO2)
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.
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, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a 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.
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, Phosphorus, Chlorine, 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
Heptane	142-82-5	TWA : Time Weighted Average (TWA):	400 ppm 1,640 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
		STEL : Short Term Exposure Limit (STEL):	500 ppm 2,050 mg/m3	12 2011	AU NOEL: Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A), as amended
		STEL : Short Term Exposure Limit (STEL):	500 ppm 2,050 mg/m3	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
		TWA : Time Weighted Average (TWA):	400 ppm 1,640 mg/m3	08 2005	AU OEL: Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)
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					Appendix A), as amended

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: Protective suit
Hygiene measures	:	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

Colour	:	colourless
Odour	:	hydrocarbon-like
pH	:	Note: Not applicable
Melting point/range	:	-90.6 °C
Boiling point/boiling range	:	98.4 °C
Flash point	:	25 °F (-4 °C) Method: closed cup
Evaporation rate	:	ca. 4.00 Method: Compared to Butyl acetate.
Lower explosion limit	:	1 %(V)
Upper explosion limit	:	6.70 %(V)
Vapour pressure	:	47.33 hPa
Vapour density	:	3.5 Note: (Air = 1.0)
Density	:	0.684 g/cm3 at 20 °C
Water solubility	:	0.003 g/l at 25 °C
Partition coefficient: n-octanol/water	:	Note: No data available
Ignition temperature	:	204 °C

Decomposition temperature	:	Note: No data available
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	Note: No data available
Molecular weight	:	100.21 g/mol

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Heat, flames and sparks. Keep away from direct sunlight.
Incompatible materials to avoid	:	Oxidizing agents Phosphorus Chlorine May attack many plastics, rubbers and coatings.
Hazardous decomposition products	:	Stable under normal conditions. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity	:	LC50: > 29.29 mg/l , vapour Exposure time: 4 h Species: Rat Method: OECD Test Guideline 403 Note: No deaths
Skin irritation	:	Result: Irritating to skin.

12. Ecological information

Toxicity

Toxicity to fish	:	LC50: 2,940 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe)
	:	LC50: 4.0 mg/l Exposure time: 24 h Species: Carassius auratus (goldfish)
	:	LC50: 4,900 mg/l Exposure time: 24 h Species: Gambusia affinis (Mosquito fish)
Toxicity to daphnia and other aquatic invertebrates	:	static test EC50: 1.5 mg/l Exposure time: 48 h Species: Daphnia (water flea)

Other adverse effects

Additional ecological information	:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not inherently biodegradable. The product can be accumulated in water organisms. Do not flush into surface water or sanitary sewer system.

13. DISPOSAL CONSIDERATIONS

Product	:	In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No.	:	UN 1206
Description of the goods	:	HEPTANES
Class	:	3
Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3

ADG_ROAD

UN/ID No.	:	UN 1206
Description of the goods	:	HEPTANES
Class	:	3
Packing group	:	II
Hazard Identification Number	:	33
Labels	:	3

IATA

UN/ID No.	:	UN 1206
Description of the goods	:	Heptanes
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 1206
Description of the goods	:	HEPTANES
Class	:	3
Packing group	:	II
Labels	:	3
EmS Number 1	:	F-E
EmS Number 2	:	S-D
Marine pollutant	:	yes

HAZCHEM CODE: 3YE
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

National regulatory information

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

Other international regulations

Notification status

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

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

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