

Infosafe No™ 1CH33      Issue Date : January 2021      RE-ISSUED by CHEMSUPP

Product Name **HEXANE FRACTION**

Classified as hazardous

## 1. Identification

**GHS Product Identifier**      HEXANE FRACTION

**Company Name**      CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address**      38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number**      Tel: (08) 8440-2000

**Emergency phone number**      CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address**      www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use**      Solvent for adhesive manufacturer and oil seed extraction.

<b>Other Names</b>	<u><b>Name</b></u>	<u><b>Product Code</b></u>
	HEXANE FRACTION TG	HT018
	HEXANE FRACTION AR	HA018

**Other Information**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture**      Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1  
Aspiration Hazard: Category 2  
Flammable Liquids: Category 2  
Specific target organ toxicity - Repeated Exposure Category 2  
Skin Corrosion/Irritation: Category 2  
Specific target organ toxicity - Single Exposure Category 3  
Toxic to Reproduction: Category 2

**Signal Word (s)**      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.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs lungs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)**      Flame, Health hazard, Exclamation mark, Environment



**Precautionary statement – Prevention**      P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.

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P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash 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.

**Precautionary statement – Response**

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P370+P378 In case of fire: Use dry foam, dry chemical, Co2 or water spray for extinction.  
 P391 Collect spillage.

**Precautionary statement – Storage**

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
 P405 Store locked up.

**Precautionary statement – Disposal**

P51 Dispose of contents/container to authorised waste disposal plant.

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	n-Hexane	110-54-3	>98 %
	Other isomers		<2 %

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist. Clothing wet with product should be soaked with water before removing to prevent the possibility of ignition by static discharges.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

<b>Specific Methods</b>	Caution: Use of water spray when fighting fire may be inefficient. Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - Do not use water jets. If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.
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<b>Specific hazards arising from the chemical</b>	HIGHLY FLAMMABLE: Product has a low flash point - Will be easily ignited by heat, sparks or flames at ambient temperatures. Vapour will form explosive mixtures with air. Vapour will travel to source of ignition and flash back. Fire may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Liquid is lighter than water. Vapour is heavier than air and will collect in low or confined areas (drains, basements, tanks). Vapours from run-off may create an explosion hazard.
<b>Hazchem Code</b>	3YE
<b>Precautions in connection with Fire</b>	SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

## 6. Accidental release measures

<b>Spills &amp; Disposal</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours. Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
<b>Clean-up Methods - Large Spillages</b>	Seek expert advice on handling and disposal.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Take precautionary measures against static discharges. All electrical equipment must be flameproofed. Avoid generation of vapours/aerosols. Work under hood.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from oxidizing agents. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight and other sources of heat or ignition. Store at room temperature (15 - 25 °C). Store away from foodstuffs. Store small containers in suitable flammable liquid storage cabinets. Larger drums (200L) must be kept in purpose-built stores.
<b>Storage Regulations</b>	Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'. Refer Australian Standard AS/NZS 2243.10:2004 'Safety in laboratories - Storage of chemicals'.
<b>Unsuitable Materials</b>	Various plastics.

## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
	n-Hexane			72	20	
<b>Other Exposure Information</b>	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for n-hexane (Safe Work Australia) of 72 mg/m <sup>3</sup> , (20 ppm). The exposure value at the TWA is the average					

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<b>Appropriate engineering controls</b>	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<b>Personal Protective Equipment</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear, colourless, water-white, mobile liquid.
<b>Odour</b>	Typical paraffinic odour.
<b>Melting Point</b>	-94 °C
<b>Boiling Point</b>	IBP: 69°C.
<b>Solubility in Water</b>	Immiscible with water.
<b>Solubility in Organic Solvents</b>	Soluble in alcohol, acetone, chloroform and ether.
<b>Specific Gravity</b>	0.67 @ 15 °C
<b>pH</b>	Neutral.
<b>Vapour Pressure</b>	16.60 kPa @ 15 °C

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<b>Vapour Density (Air=1)</b>	2.79 @ 15 °C
<b>Evaporation Rate</b>	8.40
<b>Odour Threshold</b>	64 - 244 ppm.
<b>Viscosity</b>	0.326 mPa, 20 °C.
<b>Volatile Component</b>	100%
<b>Partition Coefficient: n-octanol/water</b>	Log P (o/w): 4.11
<b>Flash Point</b>	-22 °C (Open cup).
<b>Flammability</b>	Highly flammable.
<b>Auto-Ignition Temperature</b>	225 °C
<b>Flammable Limits - Lower</b>	1.2% v/v
<b>Flammable Limits - Upper</b>	7.5% v/v
<b>Molecular Weight</b>	86.18

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage. Heat will contribute to instability.
<b>Conditions to Avoid</b>	Heat, flames, ignition sources and incompatibles.
<b>Incompatible Materials</b>	Oxidising agents, halogens, combustible materials.
<b>Hazardous Decomposition Products</b>	Thermal decomposition products: oxides of carbon. May produce acrid smoke and irritating fumes when heated to decomposition.
<b>Possibility of hazardous reactions</b>	Explosive when mixed with oxidising agents.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	This substance should be treated with great care.
<b>Acute Toxicity - Oral</b>	LD50 (rat): 16,000 mg/kg.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit): >2000 mg/kg.
<b>Acute Toxicity - Inhalation</b>	LC50 (rat): 171.6mg/l /4 h.
<b>Ingestion</b>	May cause lung damage if swallowed. Moderately toxic. May cause gastrointestinal irritation, nausea, vomiting, cramping, CNS depression, headache, anaesthesia and coma. Tends to break up into a foam if the patient vomits. Upon aspiration into the lungs, chemical pneumonitis may develop.
<b>Inhalation</b>	Danger of serious damage to health by prolonged exposure through inhalation. May cause headache, dizziness and CNS depression. Irritating to respiratory system. Prolonged exposure may cause somnolence and narcosis.
<b>Skin</b>	Irritating to skin.
<b>Eye</b>	May cause slight irritation to eyes. Risk of corneal clouding.
<b>Respiratory sensitisation</b>	Not classified based on available information.

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<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Not classified based on available information.
<b>Reproductive Toxicity</b>	Evidence of reproductive effects. Toxic to Reproduction: Category 2 H361 Suspected of damaging fertility or the unborn child.
<b>STOT-single exposure</b>	Specific target organ toxicity - Single Exposure Category 3 H336 May cause drowsiness or dizziness.
<b>STOT-repeated exposure</b>	Specific target organ toxicity - Repeated Exposure Category 2 H336 May cause drowsiness or dizziness.
<b>Aspiration Hazard</b>	Aspiration Hazard: Category 2 H304 May be fatal if swallowed and enters airways.
<b>Chronic Effects</b>	Repeated inhalation or skin exposure to n-Hexane has been noted to cause peripheral neuropathy in exposed individuals. Both sensory and motor nerve damage has been documented with long-term exposures of greater than 500 ppm. Cessation of exposure is not immediately followed by improvement and symptoms may even progress for two to three months. Final recovery may take more than one year depending on the severity of the intoxication, and may not always be complete. Concurrent exposure to n-Hexane and Methyl ethyl ketone (MEK) will accelerate the appearance of damage due to n-Hexane, although MEK alone will not cause the effect. Other isomers of hexane do not cause nerve damage. Repeated or prolonged skin contact may cause chronic dermatitis.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecotoxicity</b>	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 H411 Toxic to aquatic life with long lasting effects. Nonmiscible with water. Substance floats on the water surface.
<b>Persistence and degradability</b>	aerobic - Exposure time 28 d Result: 98 % - Readily biodegradable.
<b>Environmental Fate</b>	Behaviour in environmental compartments: Distribution: Log P(o/w): 4.11
<b>Bioaccumulative Potential</b>	Concentration in organisms possible. BCF: 242-453. An appreciable bioaccumulation potential is to be expected (log P(o/w) >3).
<b>Other Precautions</b>	Do not allow to enter waters, waste water, or soil!

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Dangerous Goods of Class 3 Flammable Liquids, are incompatible in a placard load with any of the following: - Class 1, Class 2.1, if both the Class 3 and Class 2.1, dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane and Class 7.
<b>U.N. Number</b>	1208
<b>UN proper shipping name</b>	HEXANES
<b>Transport hazard class(es)</b>	3
<b>Hazchem Code</b>	3YE
<b>Packing Group</b>	II
<b>EPG Number</b>	3A1
<b>IERG Number</b>	14

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<b>Environmental Hazards</b>	May cause long term adverse effects in the aquatic environment. Toxic to aquatic organisms.
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## 15. Regulatory information

<b>Regulatory Information</b>	All the constituents of this product are listed on the Australian Inventory of Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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<b>Poisons Schedule</b>	S5
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## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
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<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
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<b>Empirical Formula &amp; Structural Formula</b>	C6-H12
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