Safety Data Sheet HEXANE FRACTION

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SECTION 1: Identification

GHS Product identifier

Product name	HEXANE FRACTION

Other means of identification

Product	Product Code
Hexane Fraction AR	HA018
Hexane Fraction TG	HT018

Recommended use of the chemical and restrictions on use

Solvent for adhesive manufacturer and oil seed extraction.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Hazardous to the aquatic environment, long-term (chronic), Cat. 2
- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 2
- Toxic to reproduction, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following repeated exposure, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3

GHS label elements, including precautionary statements

Pictograms

Signal word	**Danger**

Hazard statement(s)

H225	Highly flammable liquid and vapor
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 [effect, route]
H373	May cause damage to organs [nervous system] through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physcian
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.
P312	Call a POISON CENTER/doctor/physcian if you feel unwell.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use agents recommended in Section 5 of SDS for extinction
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	86.18

Component	Identification	Weight %	Classifications
N-hexane	CAS no.: 110-54-3 EC no.: 203-777-6 Index no.: 601-037-00-0	>= 98 %	CLASSIFICATIONS: Flammable liquids, Cat. 2; Reproductive toxicity, Cat. 2; Aspiration hazard, Cat. 1; Specific target organ toxicity, single exposure, Cat. 3; Specific target organ toxicity, repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 2; Hazardous to the

Component	Identification	Weight %	Classifications
			aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H336 - May cause drowsiness or dizziness; H361f - ; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]; H411 - Toxic to aquatic life with long lasting effects. [SCLs/M-factors/ATEs]: STOT RE 2; H373: C ≥ 5 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once). First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
In case of skin contact	Clothing wet with product should be soaked with water before removing to prevent the possibility of ignition by static discharges. Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical attention immediately

Most important symptoms/effects, acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
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.

Specific hazards arising from the chemical

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.

Special protective actions for fire-fighters
SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up
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.

SECTION 7: Handling and storage

Precautions for safe handling
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.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Unsuitable Materials: Various plastics.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 110-54-3
N-hexane
AU/SWA (Australia): 20 ppm; 72 mg/m3 TWA inhalation [Hexane (n-Hexane)]

Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
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.

Skin protection
Clean impervious clothing should be worn. Clothing for protection against

chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection
Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless, water-white, mobile liquid.
Color	No data available.
Odor	Typical paraffinic odour.
Odor threshold	64 - 244 ppm.
Melting point/freezing point	-94 °C
Boiling point or initial boiling point and boiling range	IBP: 69°C.
Flammability	Highly Flammable
Lower and upper explosion limit/ flammability limit	Flammable Limits - Lower: 1.2% v/v Flammable Limits - Upper: 7.5% v/v
Flash point	-22 °C (Open cup).
Explosive properties	No data available.
Auto-ignition temperature	225 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	Neutral.
Kinematic viscosity	Viscosity: 0.326 mPa, 20 °C.
Solubility	Solubility in Water: Immiscible with water. Solubility in Organic Solvents: Soluble in alcohol, acetone, chloroform and ether.
Partition coefficient n-octanol/ water (log value)	Log P (o/w): 4.11
Vapor pressure	16.60 kPa @ 15 °C

Evaporation rate	8.4
Density and/or relative density	Specific Gravity: 0.67 @ 15 °C
Relative vapor density	2.79 @ 15 °C
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of storage and handling.

Risk of ignition. Vapours may form explosive mixtures with air

Chemical stability
Stable under recommended storage conditions.
Heat will contribute to instability.

Possibility of hazardous reactions
Explosive when mixed with oxidising agents.

Conditions to avoid
Heat, flames, ignition sources and incompatibles.

Incompatible materials
Oxidising agents, halogens, combustible materials.

Hazardous decomposition products
Thermal decomposition products: oxides of carbon. May produce acrid smoke and irritating fumes when heated to decomposition.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Acute Toxicity - Oral: LD50 (rat): 16,000 mg/kg.

Acute Toxicity - Inhalation: LC50 (rat): 171.6mg/l /4 h.

Ingestion: 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.
Inhalation: 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.

Skin corrosion/irritation
Acute Toxicity - Dermal: LD50 (rabbit): >2000 mg/kg.

Irritating to skin.

Serious eye damage/irritation
May cause sight irritation to eyes. Risk of corneal clouding.

Respiratory or skin sensitization
Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Toxic to Reproduction: Category 2
H361 Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (STOT) - single exposure
Specific target organ toxicity - Single Exposure Category 3
H336 May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure
Specific target organ toxicity - Repeated Exposure Category 2
H336 May cause drowsiness or dizziness.

Aspiration hazard
Aspiration Hazard: Category 2
H304 May be fatal if swallowed and enters airways.

Additional information
Chronic Effects: 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.

SECTION 12: Ecological information

Toxicity
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.

Persistence and degradability
aerobic - Exposure time 28 d
Result: 98 % - Readily biodegradable.

Bioaccumulative potential
Concentration in organisms possible. BCF: 242-453.
An appreciable bioaccumulation potential is to be expected (log P(o/w) >3).

Other adverse effects
Environmental Fate: Distrubution: Log P(o/w): 4.11

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Sewage disposal
Concentration in organisms possible. BCF: 242-453.
An appreciable bioaccumulation potential is to be expected (log P(o/w) >3).

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
UN Number: 1208
Class: 3
Packing Group: II
Proper Shipping Name: HEXANES

Hazchem emergency action code (EAC)
3[Y]E

IMDG
UN Number: 1208
Class: 3
Packing Group: II
EMS Number:
Proper Shipping Name: HEXANES

IATA
UN Number: 1208
Class: 3
Packing Group: II
Proper Shipping Name: HEXANES

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: S5

SECTION 16: Other information

Further information/disclaimer
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.

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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.

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 fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)