

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: HEXANE

Other Names: Naphtha (petroleum) hydrotreated light

Recommended Use: Industrial solvent used for adhesives & oil extraction.

Supplier: Ham Chem Hamilton Chemicals Ltd

Address: 75 Ruffell Road, Te Rapa Park, Hamilton 3200

Telephone: (+64) 7 974 4971

Website: <https://hamchem.co.nz/>

In emergency dial 111, and then ask for Fire, Ambulance, or Police as necessary.

In case of poisoning phone National Poisons Centre – 0800 764 766

2. HAZARDS IDENTIFICATION

Hazardous Nature:

This product is classified as hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020.

GHS Classifications:

Flammable liquid Category 2, Skin Irritation Category 2, Toxic to Reproduction Category 2, Specific Target Organ Systemic Toxicity Category 3 (Central Nervous System), Specific Target Organ Systemic Toxicity (Repeated Exposure) Category 2, Aspiration Toxicant Category 1, Chronic Aquatic Toxicant Category 2

GHS Pictograms:



Signal word: DANGER

Hazard Statements:

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 through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Prevention Statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.

Product: Hexane
Date of Issue: 1st September, 2026

Page 1 of 8

P210 Keep away from heat, open flames, hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond containers 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/vapors/spray
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area
 P273 Avoid release to the environment
 P280 Wear protective gloves and eye protection.

Response Statements:

P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P314: Get medical advice/attention if you feel unwell.
 P321 Specific treatment (see label).
 P331 Do NOT induce vomiting.
 P391 Collect spillage.
 P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302 + P352 IF ON SKIN: wash with plenty of water.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308 + P313: IF exposed or concerned: Get medical advice/attention.
 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 water fog or fine spray mist to extinguish.

Storage Statements:

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

Disposal Statements:

P501 Dispose of waste in accordance with Regional Authority or local council regulations.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion (%)
Naptha (petroleum), light hydrotreated	64742-49-0	100
Containing: n-hexane 44 – 70%	110-54-3	
Methylcyclopentane 5-20%	96-37-7	

4. FIRST AID MEASURES

Consult the National Poisons Centre, telephone 0800 764 766 [0800 POISON] or a doctor in every case of suspected poisoning. If medical advice is needed, have product container or label at hand.

INGESTION: Rinse mouth with water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor for advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

INHALATION: Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or doctor for advice if person feels unwell.

Product: Hexane
 Date of Issue: 1st September, 2026

Page 2 of 8

SKIN: Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water. If irritation persists, get medical advice.

EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

NOTES TO PHYSICIAN: Treat symptomatically. Risk of aspiration into lungs resulting in chemical pneumonitis which may be fatal. Consider gastric lavage with protected airway, and administration of activated charcoal. Potential for cardiac sensitization. Hypoxia or negative inotropes may enhance these effects. Consider oxygen therapy.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical powder, carbon dioxide, foam, water fog or mist or alcohol-resistant foam. Use dry chemical powder, carbon dioxide, sand or earth for small fires. Do NOT use water in a jet.

FIRE & EXPLOSION HAZARDS: In case of fire, avoid breathing smoke. Smoke and toxic gases (carbon dioxide, carbon monoxide, various hydrocarbons) evolved on combustion. Prevent extinguishing water from getting into the aquatic environment.

SPECIFIC HAZARDS: Vapour/air mixtures are explosive. Vapour may be heavier than air in which case may spread across the ground and distant ignition and flashback is possible. Cool fire exposed containers by spraying with water.

FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and personal protection clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Wear personal protective equipment. Avoid contact with skin and eyes. Highly flammable liquid and vapour. Vapour forms explosive mixture with air. Shut off leak if safe to do so. Remove or isolate ignition sources. Take precautions against static discharge. Bond or ground (earth) all equipment. Use non-sparking tools. Ventilate contaminated area. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low-lying areas. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. For large spills (more than a drum), recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Do not flush away residues with water. Allow residues to evaporate. Remove any contaminated soil and dispose of safely by waste management company. For small spills, absorb with an appropriate material, e.g. vermiculite, sand, earth, and dispose of waste safely in a labelled sealed container for recovery or disposal. If contamination of drains, sewers or waterways occurs immediately notify Emergency Services (111).

DISPOSAL: Dispose of contaminated waste or product to a solvent recycling facility or to an approved landfill in accordance with local regulations.

7. HANDLING AND STORAGE

HANDLING: Highly flammable liquid and vapour. Read label before use. Keep container closed when not in use. Use only in well-ventilated areas. No smoking. Avoid breathing vapors or direct contact with product. Wear personal protective equipment. Wash hands and exposed skin after handling.

Product: Hexane
Date of Issue: 1st September, 2026

Page 3 of 8

Remove ignition sources. Avoid sparks. Use bonded or grounded (earthed) equipment. Electrostatic charge may be generated during pumping with risk of fire. Restrict line filling; ≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec. Do not splash fill. Do not use compressed air for filling, discharging or handling.

STORAGE: Ensure all storage areas have adequate fire-fighting equipment. Store locked up in closed original container in a cool dry well-ventilated place, away from sunlight, ignition sources, heat, incompatible substances, out of reach of children, and away from food, drink and animal foodstuffs. Take precautions to avoid vapour accumulation in pits and confined spaces.

Recommended materials: Mild steel or stainless steel for containers or container linings. For container paints, use epoxy paint, zinc silicate.

Unsuitable materials: Natural, butyl or nitrile rubber.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

EXPOSURE GUIDELINES: A NZ Workplace Exposure Standard (WES) has been set for a component in this substance.

	WES-TWA	WES-STEL
Hexane BIO	20 ppm (72 mg/m ³)	
Other isomers	500 ppm (1760 mg/m ³)	1000 ppm (3500 mg/m ³)

ENGINEERING CONTROLS: Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapors (Type A filter material) may be suitable for low concentration level exposures. Otherwise, use a full-face mask fitted with an organic vapour cartridge.

Where air-filtering respirators are unsuitable (e.g. air-borne concentrations are high, risk of oxygen deficiency, confined space) use positive pressure breathing apparatus.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear impervious antistatic protective clothing. Safety shoes and boots need to be chemically resistant. Wear appropriate aliphatic hydrocarbon resistant gloves. e.g. nitrile rubber, Viton, PVA. Wear chemical goggles or safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical value
Appearance:	Clear colorless liquid
Odour:	Paraffinic, sweet
Odour threshold:	Not available
pH:	Not applicable
Melting point/Freezing point(°C):	Not available
Boiling point/Boiling range (°C):	65 - 70
Freezing point(°C):	< - 60
Flash point (°C):	< -18
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits in air (%v/v):	1.2 – 8.3
Vapour pressure (kPa at 20°C):	18 (typical)
Vapour density (air =1):	2.8
Relative density at 15°C, g/cc:	0.677 (typical)
Solubility in water:	Negligible
Partition coefficient: n-octanol/water:	4
Auto-ignition temperature (°C):	280
Decomposition temperature (°C):	Not available

Product: Hexane
Date of Issue: 1st September, 2026

Page 4 of 8

Kinematic viscosity:	Not available
Volatile organic carbon content:	Not available
Evaporation rate (nBuAc =1):	8

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of storage and use.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: A complex mixture of smoke and toxic gases (carbon dioxide, carbon monoxide, various hydrocarbons) evolved on combustion.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

ACUTE TOXICITY: Not classified for acute toxicity in ingested, absorbed through skin or by inhalation.

ASPIRATION HAZARD: May be fatal if swallowed and enters airways; chemical pneumonitis.

RESPIRATORY IRRITATION: Inhalation of vapours may be irritating to mucous membranes and respiratory system. Symptoms may include coughing, temporary burning sensation of nose and throat, and/or difficulty breathing

SKIN CORROSION/IRRITATION: Skin irritant. Symptoms may include burning sensation, redness, swelling and/or blisters. Repeated contact may cause skin dryness or cracking.

SERIOUS EYE DAMAGE/IRRITATION: Transient effects; burning sensation, swelling, redness, and/or blurred vision.

RESPIRATORY OR SKIN SENSITISATION: Not classified for sensitization effects.

GERM CELL MUTAGENICITY: Not classified with mutagenic properties.

CARCINOGENICITY: Not classified with carcinogenic properties.

REPRODUCTIVE TOXICITY: Suspected of damaging fertility or the unborn child. Cause fetotoxicity in animals at does which are maternally toxic.

SPECIFIC ORGAN TOXICITY (REPEATED AND SINGLE EXPOSURE): Repeated or prolonged exposure may cause central nervous system depression resulting in headaches, dizziness and nausea. Continued exposure by inhalation may result in unconsciousness and/or death. Causes peripheral neuropathy (incoordination, unsteady walk, muscle weakness in extremities, loss of sensation in arms or legs) which can be potentiated by organic hydrocarbons.

NARCOTIC EFFECTS: Vapours inhaled at high concentration will have narcotic effects on central nervous system; nausea, dizziness, drowsiness.

Toxicological data: Not available.

Additional information: Chronic abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Product is classified as toxic to aquatic life with long lasting effects.

PERSISTENCE AND BIODEGRADABILITY: Expected to be rapidly biodegradable. Floats on water. Readily evaporates.

POTENTIAL FOR BIOACCUMULATION: Potential for bioaccumulation.

MOBILITY IN SOIL: Insoluble in water. Absorbs to soil. Expected to have low mobility in soil.

OTHER ADVERSE EFFECTS: Not available.

Ecotoxicological data: Not available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Recover and recycle product whenever possible. Send clean dry drums to recycling facility or metal scrap reclaimer. Dispose of waste in accordance with Regional Authority or local council bylaws.

SPECIAL PRECAUTIONS: Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Do not use empty drums for storing other products.

14. TRANSPORT INFORMATION

UN Number:	1208
Shipping Name:	HEXANES
Class:	3
Packing Group:	II
Hazchem code:	3YE
Marine Pollutant:	Yes

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 3.
Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.



Product: Hexane
Date of Issue: 1st September, 2026

Page 6 of 8

15. REGULATORY INFORMATION

Country/Region: New Zealand
Inventory: NZIoC
Status: Listed

EPA New Zealand Approval Code: HSR002650; Solvents (Flammable) Group Standard 2020
HSNO Controls: Refer www.epa.govt.nz for information on Controls and any variations to controls.

16. OTHER INFORMATION

Issue number: 6
Date of Issue: 27th March 2025
Reasons for Issue: Update GHS classifications.
Replaces: 14th October 2021

Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
AS/NZS	Standards Australia & Standards New Zealand
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service
CCID	Chemical Classification and Information Database
EC50	Effective Concentration, 50 per cent
EPA	Environmental Protection Authority
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
GHS 7	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
HSNO	Hazardous Substances and New Organisms Act 1996
HSWA	Health and Safety at Work Act 2015
IARC	International Agency for Research on Cancer
IC50	Half Maximal Inhibitory Concentration
LC50	Lethal Concentration, 50 per cent
LD50	Lethal Dose, 50 per cent
LEL	Lower Explosive Limit
LOAEL	Lowest-observed-adverse-effect level N/R: Not Regulated
NOAEL	No-observed-adverse-effect-level
NOEC	No Observed Effect Concentration
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	New Zealand Standard Transport of Dangerous Goods on Land
OECD	Organisation for Economic Co-operation and Development
STEL	Short-Term-Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
UEL	Upper Explosive Limit
WES	Workplace Exposure Limit

References:

www.epa.govt.nz
Supplier Safety Data Sheet

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities

Product: Hexane
Date of Issue: 1st September, 2026

Page 7 of 8

surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Ham Chem Hamilton Chemicals Ltd.

END of SAFETY DATA SHEET