

SAFETY DATA SHEET

PRODUCT NAME: ACETONE

Issue Date: September 2024

SECTION 1 IDENTIFICATION

Product Name: Acetone
Other Names: Dimethyl Ketone, 2-Propanone, Propane-2-one
Product Code: ZACET, CA5, CA20, CA202
Uses: Industrial solvent and chemical intermediate; may be repacked for sale to the public as a solvent.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.nz Email: info@hamchem.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 (0800 POISON)

SECTION 2 HAZARD IDENTIFICATION



GHS Categories

Flammable liquids - Category 2
Serious Eye Irritation - Category 2

Signal word: DANGER

Hazard Statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Prevention

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/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
P280 Wear eye protection/face protection.
P264 Wash hands thoroughly after handling.

Response

P101 - If medical advice is needed, have product container or label at hand.
P303 + P361 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P332 + P313 - If skin irritation occurs: Get medical advice.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337 + P313 If eye irritation persists: Get medical advice.

P370 + P378 In case of fire: Use water fog or mist, or alcohol-resistant foam to extinguish.

Storage

P403 + P235 Store in well-ventilated place with no sources of ignition. Keep cool.

Disposal

P501 - Dispose of product to a landfill in accordance with any local regulations.

SECTION 3 COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (% w/w)
Acetone	67-64-1	99-100%

SECTION 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 SDS or photograph of label at hand.

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

INHALATION: Move person to fresh air and keep warm and at rest until recovered. Call a Poison Centre or Doctor for advice or take to local medical facility if recovery is not rapid.

SKIN: Remove immediately all contaminated clothing. Wash affected area with plenty of water followed by soap and water.

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

NOTES TO PHYSICIAN: Treat symptomatically. Potential for chemical pneumonitis. Consider gastric lavage with protected airway and administration of activated charcoal.

SECTION 5 FIRE FIGHTING MEASURES**HAZCHEM 2YE**

FLASH POINT: -20°C

FLAMMABLE LIMITS: LFL: 2.1% v/v UFL: 13 % v/v

EXTINGUISHING MEDIA: Use water fog or mist or alcohol-resistant foam. Use dry chemical powder, carbon dioxide, sand or earth for small fires only.

FIRE & EXPLOSION HAZARDS: In case of fire, avoid breathing smoke.

SPECIFIC HAZARDS: Vapour is heavier than air, will spread across the ground and distant ignition is possible. Cool fire exposed containers with large quantities of water

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

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SECTION 6 ACCIDENTAL RELEASE MEASURES

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

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

SECTION 7 HANDLING & STORAGE

HANDLING: Highly flammable liquid and vapour. Read label before use. Remove ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict line viscosity to avoid generation of electrostatic discharge (< 1m/sec until fill pipe submerged to twice its diameter, then < 7 m/sec). Take precautions to use bonded or grounded (earthed) equipment. No Smoking. Do not use compressed air for filling, discharging or handling. Use only in well-ventilated area. Keep container closed when not in use. Wear personal protective equipment to prevent breathing of and contact with product. Wear gloves and protect eyes from splashes. Wash hands and exposed skin after handling.

STORAGE: Ensure all storage areas have adequate fire-fighting equipment. Store in closed original container in a secure cool dry well-ventilated place, away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidizing agents, and corrosives, out of reach of children, and away from food, drink and animal foodstuffs. Vapour heavier than air, take precautions to avoid accumulation in pits and confined spaces. For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint or zinc silicate paint.

Incompatible materials: Strong oxidizing agents. Strong alkalis. Bromine. Mineral acids. Natural rubber.

SECTION 8 EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE GUIDELINES: NZ Workplace Exposure Standard (WES) have been set for components in this substance.

	WES-TWA	WES-STEL
Acetone (bio)	500 ppm (1185 mg/m ³)	1000 ppm (2375 mg/m ³)

ENGINEERING CONTROLS: Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapours (boiling point <65°C) is recommended. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear protective clothing. Safety shoes and boots need to be chemical resistant. Wear appropriate chemical resistant gloves; PVC or Viton may be suitable. Avoid contact with eyes. Wear chemical goggles if splash or aerosol/mist exposure risk. Refer to the relevant AS/NZ standards for appropriate personal protective equipment.

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SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear, colourless
Odour:	Characteristic
Boiling point (°C):	56
Flash point (°C):	-18
Flammability limits in air (%v/v):	2.1 to 13
Auto ignition temperature (°C):	540
Vapour pressure (kPa at 20°C):	24.7
Density at 20°C, g/cc:	0.790 – 0.792
Solubility in water:	Completely miscible
pH:	Not available
n-octanol/water partition co-efficient (log POW):	0.2
Dynamic viscosity (mPa.s at 20°C):	0.33
Vapour density (air =1):	2

SECTION 10 STABILITY & REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable under normal storage and use conditions. Avoid heat, sparks, open flames and other ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not known.

HAZARDOUS POLYMERIZATION: Not known to occur.

SECTION 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.

INGESTION: May be harmful if swallowed and if product enters lungs.

INHALATION: Avoid inhalation of vapours, spray or mists. May irritate respiratory system. If product enters lungs symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breather and/or fever. Breathing of high concentrations may cause central nervous system depression resulting in dizziness, light headedness, headache, nausea and loss of co-ordination. Continued inhalation may result in unconsciousness and death.

SKIN CONTACT: Mild skin irritant. Prolonged or repeated contact may cause defatting of skin which can lead to dermatitis.

EYE CONTACT: Mildly irritating to eyes. Symptoms can include burning sensation, redness, swelling, and/or blurred vision.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: No other effects noted.

CANCER INFORMATION: Not classified as carcinogen.

TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS: Not classified.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Not a mutagen.

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HamChem Ltd, 75 Ruffell Road, Hamilton, New Zealand. Phone: 07-974-4971 Email: info@hamchem.nz Web: www.hamchem.nz

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Toxicity data: Oral, mouse LD50 3000 mg/kg b.w.

Additional information: Exposure may enhance the toxicity of other materials. May potentiate the peripheral neurotoxicity of n-hexane, and the liver and kidney toxicity of some chlorinated hydrocarbons such as carbon tetrachloride.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: This product has not been classified as being ecotoxic.

MOVEMENT AND PARTITIONING: Product is soluble in water.

DEGRADATION AND PERSISTENCE: Not expected to bio accumulate and is readily biodegradable. Product is mobile in soil and may contaminate groundwater. A void contamination of drains and waterways.

ECOTOXICOLOGY: No EEL has been set for this substance.

SECTION 13 DISPOSAL CONSIDERATIONS

Recover and recycle product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws. Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send clean dry drums to recycler or metal scrap reclaimer. Do not use empty drums for storing other products.

SECTION 14 TRANSPORT INFORMATION

UN Number: 1090
Proper Shipping name: Acetone
Dangerous Goods Class: 3
Subsidiary Risk: N/A
Packing group: II
Hazchem Code: 2[Y]E

SECTION 15 REGULATORY INFORMATION

Classified as hazardous under the HSNO Act 1996 according to criteria of Minimum Degrees of Hazard (Threshold) Regulations, 2001.

EPA New Zealand Approval Code: HSR001070; 2-Propanone
Refer to Section 2 for hazardous classifications and to www.epa.govt.nz for Controls and Conditions.

HSNO Classifications: 3.1B, 6.4A

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SECTION 16 OTHER INFORMATION

Key to abbreviations:

CAS No.	Chemical Abstracts Service Number
EPA	Environmental Risk Management Authority
HSNO	Hazardous Substances & New Organisms
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

REFERENCES:

Chemical Classification and Information database; www.epa.govt.nz
Supplier Safety Data Sheet

End of SDS.