

# SAFETY DATA SHEET

**PRODUCT NAME:** N-PROPYL ACETATE

Issue Date: October 22

## IDENTIFICATION

**Product Name:** N-Propyl Acetate  
**Other Names:** Propyl Acetate, Acetic Acid Propyl Ester  
**Product Code:** CPACET20  
**Uses:** Industrial solvent.  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 079744971 Email: [info@hamchem.nz](mailto:info@hamchem.nz) Web: [www.hamchem.nz](http://www.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

## HAZARD IDENTIFICATION



### GHS Classifications

Flammable Liquid – Category 2

Eye Irritation – Category 2

**Signal Word:** DANGER

### Hazard Statements

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

### Precautionary Statements

### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed

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

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/clothing and eye/face protection.

### Response

P370+P378 In case of fire: Use carbon dioxide, dry chemical, foam, water fog or water mist to extinguish.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention

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HamChem Ltd, 75 Ruffell Road, Hamilton, New Zealand. Phone: 07-974-4971 Email: [info@hamchem.nz](mailto:info@hamchem.nz) Web: [www.hamchem.nz](http://www.hamchem.nz)

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**Storage**

P403+P235 Store in a well-ventilated place. Keep cool

**Disposal**

P501 Dispose of contents/container to an approved waste facility in accordance with local regulations

**COMPOSITION & INFORMATION ON INGREDIENTS**

<b>Chemical Entity</b>	<b>CAS No.</b>	<b>Proportion (%)</b>
N-Propyl Acetate	109-60-4	98-100%

**FIRST AID MEASURES**

**If swallowed:** Do NOT induce vomiting. Wash mouth out thoroughly with water. Seek immediate medical attention.

**If on skin:** Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention.

**If inhaled:** Remove to fresh air. Keep at rest until recovered. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek medical attention if symptoms appear.

**If in eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities:** Eyewash, safety shower and normal washroom facilities.

**Note to Physician:** Treat symptomatically.

**For advice in an emergency, contact a Poisons Information Centre (0800 764 766) or a Doctor at once.**

**FIRE FIGHTING MEASURES**

**Suitable Extinguishing media:** Carbon dioxide, dry chemical, foam, water fog or water mist. Alcohol resistant foam is preferred. If not available fine water spray/mist can be used. Do not use water jet.

**Hazards from Combustion Products:** Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

**Specific Hazards Arising from the Chemical:** Highly flammable liquid and vapour. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

**Decomposition Temperature:** Not available

**Precautions in Connection with Fire:** Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

**ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation.

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Evacuate all unprotected personnel. If possible, contain the spill. Place inert absorbent, non-combustible material onto spillage. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labeled containers. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

**HANDLING & STORAGE**

**Handling advice:** Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Work from suitable, labeled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Do not empty into drains. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

**Storage advice:** Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and clothing, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures.

**EXPOSURE CONTROLS & PERSONAL PROTECTION****Exposure standards:**

The following exposure standards have been set by WorkSafe NZ

<b>National Exposure Standards</b>	<b>Name</b>	<b>STEL (mgm3)</b>	<b>STEL (ppm)</b>	<b>TWA (mgm3)</b>	<b>TWA (ppm)</b>
	n-propyl acetate	1040	250	835	200

**Engineering controls:** Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required.

**Personal protective equipment:** If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. The use of chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended. Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstance. Suitable protective work wear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

**PHYSICAL & CHEMICAL PROPERTIES**

<b>Form</b>	Liquid
<b>Appearance</b>	Transparent colourless liquid
<b>Colour</b>	Colourless
<b>Odour</b>	Mild
<b>Decomposition Temperature</b>	Not available

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<b>PRODUCT NAME:</b>	<b>N-PROPYL ACETATE</b>
<b>Freezing Point</b>	-95°C
<b>Boiling Point</b>	101.5°C (1013 hPa)
<b>Solubility in Water</b>	2.0% w/w (20°C)
<b>Specific Gravity</b>	0.8883 (20°C)
<b>pH</b>	Not available
<b>Vapour Pressure</b>	33 hPa (20°C)
<b>Vapour Density (Air = 1)</b>	3.5
<b>Evaporation Rate</b>	2.75
<b>Odour Threshold</b>	Not available
<b>Volatile Component</b>	100%
<b>Partition Coefficient: n-octanol/water</b>	1.24
<b>Flash Point</b>	14°C (Closed Cup) 18°C (Open Cup)
<b>Flammability</b>	Highly flammable liquid and vapour
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits – Lower</b>	1.7% v/v (38°C)
<b>Flammable Limits – Upper</b>	8% v/v
<b>Explosion Properties</b>	Not available
<b>Oxidising Properties</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Dynamic Viscosity</b>	Not available

### STABILITY & REACTIVITY

**Stability:** Stable under normal conditions of storage and handling.

**Hazardous decomposition products:** Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

**Hazardous polymerization:** Will not occur.

**Incompatibles:** Strong oxidising agents, nitric acid, sodium hydroxide, alkali metal hydroxide.

**Conditions to avoid:** Heat, direct sunlight, open flames or other sources of ignition.

### TOXICOLOGICAL INFORMATION

**Toxicity data:**

Acute oral LD50 (rat): 9800 mg/kg  
 Acute dermal LDSO (Rabbit): > 20ml/kg  
 Acute inhalation LC50 (Rat) 4 hours: Approx. 8000 ppm

**Germ Cell Mutagenicity:** Not considered to be a mutagenic hazard.

**Carcinogenicity:** Not considered to be a carcinogenic hazard.

**Reproductive Toxicity:** Not considered to be toxic to reproduction.

### ECOLOGICAL INFORMATION

**Ecotoxicity:** Harmful to aquatic life.

**Persistence & Degradability:**

ThOD (Theoretical Oxygen Demand): 2.04 mg/mg (measured)  
 ThOD (Theoretical Oxygen Demand): 2.04 mg/mg (calculated value)  
 BOD (Biochemical Oxygen Demand): 62% (BOD5 day)  
 BOD (Biochemical Oxygen Demand): 80% (BOD10 day)  
 BOD (Biochemical Oxygen Demand): 72% (BOD20 day)

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**Mobility:** Not available

**Bioaccumulative Potential:** Not available

**Other Adverse Effects:** Not available

**Environmental Protection:** Do not discharge this material into waterways, drains and sewers.

**Acute Toxicity:** LC50 (fathead minnow): 80mg/l/96h; LC50 (daphnia): 100.5mg/l/48h; IC50 (bacteria): 1000mg/l/16h

#### DISPOSAL CONSIDERATIONS

The spilled or waste material must be disposed of in accordance with relevant local, regional and national regulations. Uncleaned packaging must be disposed of in the same manner as the material. Empty containers may retain vapour and product residue and therefore present health, fire and explosion hazards.

#### TRANSPORT INFORMATION

**UN Number:** 1276  
**Proper Shipping name:** n-PROPYL ACETATE  
**Dangerous Goods Class:** 3 – Flammable Liquids  
**Packing group:** II  
**Hazchem Code:** 3[Y]E

#### REGULATORY INFORMATION

**HSNO Classifications:** 3.1B, 6.4A

**EPA Approval #** HSR001217 – Acetic Acid, Propyl Ester

#### OTHER INFORMATION

**Key to abbreviations:**

**End of SDS.**