

SAFETY DATA SHEET

PRODUCT NAME: ETHYL ACETATE

Issue Date: September 24

SECTION 1

IDENTIFICATION

Product Name: Ethyl Acetate
Other Names: Acetic Acid, Ethyl Ester, Acetic Ether, Acetidin, Acetoxyethane, Ethyl Acetic Ester, Ethyl Ethanoate
Product Code: ZEACET, CEACET20
Use: Solvent
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
 Phone: 079744971 Web: www.hamchem.co.nz Email: sales@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

SECTION 2

HAZARD IDENTIFICATION



GHS Classifications

Flammable Liquid – Category 2
 Serious Eye Damage/Irritation – Category 2
 Specific Target Organ Toxicity (Repeated Exposure) - Category 2

Signal word: DANGER

Hazard Statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H373 May cause damage to organs through prolonged or repeated exposure
 H336 may cause drowsiness or dizziness.

Prevention

Keep away from children
 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.
 P260 Do not breathe fume/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/clothing and eye/face protection and respirator if inadequate ventilation..

Response

P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water (and soap if available).
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for at least 15 minutes. Remove any contact lenses. Continue rinsing
 P337+P313 If eye irritation persists: Get medical advice
 P314 Get medical advice/attention if you feel unwell
 P370+P378 In case of fire: Use water fog/mist or alcohol-resistant foam to extinguish.

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Storage

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

Disposal Statement

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

SECTION 3	COMPOSITION & INFORMATION ON INGREDIENTS
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Chemical Entity	CAS No.	Proportion (% w/w)
Ethyl Acetate	141-78-6	>99.5

SECTION 4	FIRST AID MEASURES
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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 label or container at hand.

INGESTION: Rinse mouth with water. Do NOT induce vomiting. Call a Poison Centre 0800 764 766 or Doctor for advice if person feels unwell. 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 0800 764 766 or Doctor for advice if person feels unwell.

SKIN: Remove immediately all contaminated clothing and footwear. Wash affected area with plenty of 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. Product may also cause central nervous system depression.

SECTION 5	FIRE FIGHTING MEASURES
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Hazchem code 3YE

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

FIRE & EXPLOSION HAZARDS: In case of fire, avoid breathing smoke. Smoke and harmful gases evolved on combustion. Prevent extinguishing water from getting into the aquatic environment.

SPECIFIC HAZARDS: Vapour/air mixtures are explosive. Vapour is heavier than air, will 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.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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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 the 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 labelled 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 way of waste management company. For small spills, absorb with an appropriate material i.e., vermiculite, 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).

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

SECTION 7	HANDLING & STORAGE
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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 vapours or direct contact with product. Wear personal protective equipment. Wash hands and exposed skin after handling. Remove ignition sources. Avoid sparks. Use bonded or grounded (earthed) equipment. Electrostatic charge may be generated during pumping with risk of fire. Do not use compressed air for filling, discharging or handling.

STORAGE: Ensure all storage areas have adequate fire-fighting equipment. Store securely in closed original container in a secure cool dry well-ventilated place, away from sunlight, ignition sources, heat, incompatible substances, aerosols, other flammables, oxidising 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 of vapours in pits and confined spaces.

SECTION 8	EXPOSURE CONTROLS & PERSONAL PROTECTION
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EXPOSURE GUIDELINES: NZ Workplace Exposure Standard (WES) have been set for this substance.

	WES-TWA	WES-STEL
Ethyl Acetate	200 ppm (720 mg/m ³)	-

ENGINEERING CONTROLS: Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapours (Type A filter material) may be suitable for low concentration level exposures. Otherwise, use full-piece organic vapour respiratory protective equipment. 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 impervious antistatic protective clothing including safety shoes or boots. Wear appropriate chemical resistant gloves, e.g., nitrile, PVA. Avoid contact with eyes. Wear chemical goggles or safety glasses with side shields, if splash or aerosol/mist exposure risk. Refer to the relevant AS/NZ standards for appropriate personal protective equipment. Routinely wash work clothing and protective equipment to remove contaminants. Discard any protective equipment, clothing or footwear that cannot be cleaned.

SECTION 9	PHYSICAL & CHEMICAL PROPERTIES
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Appearance:	Clear, colourless liquid
Odour:	Fruity
Boiling point (°C):	77.1
Flash point (°C):	-4
Vapour pressure (kPa):	98.3@ 20°C
Upper/lower flammability limits in air (%v/v):	2.2 – 11.5
Density at 20°C, g/cc:	0.900
Solubility in water:	64000 mg/l _t
pH:	Not available
Partition coefficient: n-octanol/water:	0.73
Auto-ignition temperature (°C):	427
Vapour density (air =1):	3.04
Evaporation rate (nBuAc =1):	4.5

SECTION 10	STABILITY & REACTIVITY
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STABILITY (CONDITIONS TO AVOID): Stable under normal storage and use conditions. Avoid heat, sparks, open flames, ignition sources and contact with incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Dependent on conditions under which decomposition occurs (combustion or oxidative degradation). A complex mixture of airborne solids, liquids and gases (carbon monoxide, carbon dioxide) will be evolved.

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HAZARDOUS POLYMERIZATION: Not known to occur.

SECTION 11	TOXICOLOGICAL INFORMATION
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POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

ACUTE TOXICITY: LD50 (Rat): 5620 mg/kg

INGESTION: May be harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

INHALATION: Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. May cause drowsiness or dizziness.

SKIN CORROSION/IRRITATION: May be irritating to skin. The symptoms may include redness, itching and swelling.

SERIOUS EYE DAMAGE/IRRITATION: Serious eye irritant. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

RESPIRATORY OR SKIN SENSITIZER: Not classified as contact sensitizer.

GERM CELL MUTAGENICITY: Not classified with mutagenic properties.

CARCINOGENICITY: Not classified with carcinogenic properties.

REPRODUCTIVE TOXICITY: Not classified with adverse effects on fertility or the unborn child.

SPECIFIC ORGAN TOXICITY (REPEATED & SINGLE EXPOSURE): Inhalation by repeated or prolonged exposure, may cause central nervous system depression. Symptoms may include headache, dizziness and drowsiness, nausea, vomiting, narcosis, anemia.

NARCOTIC EFFECTS: Not classified for narcotic effects.

SECTION 12	ECOLOGICAL INFORMATION
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ECOTOXICITY: Product is not classified for ecotoxic properties.

PERSISTENCE & BIODEGRADABILITY: Expected to be rapidly biodegradable.

POTENTIAL FOR BIOACCUMULATION: Not expected to bioaccumulate significantly.

MOBILITY IN SOIL: Product has some solubility in water. May contaminate groundwater.

OTHER ADVERSE EFFECTS: None available

ECOTOXICOLOGICAL DATA: LC50 (Fish): 328mg/l/96h; ErC50 (Algae): 2500mg/l/96h

SECTION 13	DISPOSAL CONSIDERATIONS
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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.

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SECTION 14	TRANSPORT INFORMATION
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UN Number: 1173
Proper Shipping name: Ethyl Acetate
Dangerous Goods Class: 3
Packing group: II
Hazchem Code: 3[Y]E
Marine Pollutant: No

SECTION 15	REGULATORY INFORMATION
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EPA New Zealand Approval Code: HSR001041 – Acetic acid ethyl ester
HSNO Classifications: 3.1B, 6.1E (oral) 6.4A, 6.9B

SECTION 16	OTHER INFORMATION
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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.