#### SDS 23201 Ethyl Acetate

Date of Issue/re-issue: 17/01/2019

Expiry: 01/02/2024

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Company Name ECP Limited** Address: 39 Woodside Ave, Northcote, Auckland, New Zealand Emergency Tel: 0800 243 622 or **Tel** +64 9 480 4386 FAX +64 9 480 4385 .....0800 CHE M CA LL **Ethyl Acetate** Product 23201 Code CAS# HSNO# UN # DG Packing group # Tracking? Handlers Class/es **Certificate?** 141-78-6 HSR001041 1173 3 Ш No No

Recommended use: Laboratory Investigations

# 2. Hazards identification

2.1 GHS Classification
Flammable Liquids (Category B)
Acute toxicity, Inhalation (Category E)
Eye irritation (Category A)
2.2 GHS Label elements, including precautionary statements



# Signal word **Danger**

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H333 May be harmful if inhaled.

Precautionary statement(s)

Prevention

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 only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

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

Response

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

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage

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

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

Repeated exposure may cause skin dryness or cracking.

### 3. Composition/information on ingredients

3.1 Substances Formula: C<sub>4</sub>H<sub>8</sub>O<sub>2</sub>

Molecular Weight: 88.11 g/mol

Component	Concentration					
Ethyl acetate						
CAS No. 141-78-6		<=100%				

### 4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed Inhalation of high concentrations may cause: headache, drowsiness, dizziness, vomiting, narcosis, anaemia, central nervous system depression.

4.3 Indication of any immediate medical attention and special treatment needed No data available

### 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

### 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours

accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal.

# 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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.

7.3 Specific end use(s)

No data available

# 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No	Value	Control Basis parameters		
Ethyl acetate	141-78-6	WES- TWA	200 ppm 720 mg/m <sup>3</sup>	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants	

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact

. Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 113 min

**Body Protection** 

Impervious clothing. Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** 

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

# 9. Physical and chemical properties

9.1 Information on basic physical and chemical propertiesa) AppearanceForm: clear, liquidColour: colourlessb) Odour

no data available c) Odour Threshold no data available d) pH no data available e) Melting point/freezing point Melting point/range: -84 °C f) Initial boiling point and boiling range 76.5 - 77.5 °C g) Flash point -3.0 °C - closed cup h) Evaporation rate no data available i) Flammability (solid, gas) no data available j) Upper/lower flammability or explosive limits Upper explosion limit: 11.5 %(V) Lower explosion limit: 2.2 %(V) k) Vapour pressure 97.3 hPa at 20.0 °C I) Vapour density no data available m) Relative density 0.90 g/cm3 n) Water solubility soluble o) Partition coefficient: n-octanol/water log Pow: 0.73 p) Auto-ignition temperature 427.0 °C q) Decomposition temperature no data available r) Viscosity no data available

#### 10. Stability and reactivity

10.1 Reactivity
no data available
10.2 Chemical stability
no data available
10.3 Possibility of hazardous reactions
no data available
10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.
10.5 Incompatible materials
Strong oxidizing agents
10.6 Hazardous decomposition products
no data available

### **11. Toxicological information** 11.1 Information on toxicological effects Acute toxicity

LD50 Oral - rat - 5,620 mg/kg LC50 Inhalation - mouse - 2 h - 45,000 mg/m3 LD50 Dermal - rabbit - > 18,000 mg/kg Skin corrosion/irritation May cause skin irritation and/or dermatitis. Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** no data available Specific target organ toxicity - single exposure May cause drowsiness or dizziness. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes Causes serious eye irritation. Signs and Symptoms of Exposure Inhalation of high concentrations may cause: headache, drowsiness, dizziness, vomiting, narcosis, anaemia, central nervous system depression. Additional Information RTECS: AH5425000 12. Ecological information 12.1 Toxicity Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 350.00 - 600.00 mg/l - 96 h

LC50 - Pimephales promelas (fathead minnow) - 220.00 - 250.00 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h

LC50 - Daphnia magna (Water flea) - 560 mg/l - 48 h

Toxicity to algae EC50 - Algae - 4,300.00 mg/l - 24 h

EC50 - SELENASTRUM - 1,800.00 - 3,200.00 mg/l - 72 h

12.2 Persistence and degradability

Biodegradability Result: 79 % - Readily biodegradable.

Method: OECD Test Guideline 301D 12.3 Bioaccumulative potential Bioaccumulation 3 d Bioconcentration factor (BCF): 30 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available 12.6 Other adverse effects no data available

## 13. Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

### 14. Transport Information Table

	•	ADR/RID -	IMDG	IATA – DGR		
		European	International Maritime	International Air Travel		
		packaging	Dangerous Goods Code	Association – Dangerous		
		certification		Goods Regulations		
14.1	UN Number	1173	1173	1173		
14.2	UN Proper Shipping	ETHYL	ETHYL ACETATE	Ethyl acetate		
	name	ACETATE				
14.3	Transport Hazard	3	3	3		
	Class					
14.4	Packaging group	П	II	П		
14.5	Environmental	No	No	No		
	Hazards					
14.6	Special precautions	No data available				
	for user					

### **15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

HSNO Approval Code: HSR001041

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

### 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The

user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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