#### SDS 9087 N-Butyl Acetate

Date of Issue/re-issue: 19/12/2018

Expiry: 01/01/2024

#### **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 Product N-Butyl Acetate Code 9087 Handlers CAS# HSNO# UN # DG Packing group # Tracking? Class/es **Certificate?** 123-86-4 3 Ш HSR006409 1123 No No

Recommended use: Laboratory Investigations

### 2. Hazards identification

2.1 GHS Classification
Flammable Liquids (Category C)
Acute toxicity, Inhalation (Category C)
Skin irritation (Category A)
Eye irritation (Category A)
Aquatic toxicity (Acute or Chronic) (Category D)
2.2 GHS Label elements, including precautionary statements



# Signal word Danger

Pictogram Hazard statement(s)

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H402 Harmful to aquatic life.

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P311 Call a POISON CENTER /doctor.

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

P362 Take off contaminated clothing and wash before reuse.

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

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

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

Substance/Mixture: Substance 3.1 Substances Hazardous components

Component	Classification	Concentration		
n-Butyl Acetate				
	3.1 C; 6.1 C; 6.3 A; 6.4 A; 9.1 D;	<=100%		
	H226, H331, H315, H319, H402			

### 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

Flush eyes with water as a precaution.

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 Drowsiness.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

No data available 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. 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. Discharge into the environment must be avoided.

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 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	
n-Butyl Acetate	123-	WES-	150 ppm	New Zealand. Workplace Exposure
	86-4	TWA	713 mg/m <sup>3</sup>	Standards for Atmospheric Contaminants
		WES-	200 ppm	New Zealand. Workplace Exposure
		STEL	950 mg/m <sup>3</sup>	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: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 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 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 properties a) Appearance Form: liquid Colour: colourless b) Odour Fruitlike c) Odour Threshold No data available d) pH 6.2 at ca.5 g/l at 20 °C e) Melting point/freezing point Melting point/range: -78 °C - lit. f) Initial boiling point and boiling range 124 - 126 °C - lit. g) Flash point 23 °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: 7.6 %(V) Lower explosion limit: 1.7 %(V) k) Vapour pressure 20 hPa at 25 °C I) Vapour density 4.01 - (Air = 1.0)m) Relative density 0.88 g/cm3 at 25 °C n) Water solubility 5.3 g/l at 20 °C - OECD Test Guideline 105 - soluble o) Partition coefficient: n-octanol/water log Pow: 2.3 at 25 °C p) Auto-ignition temperature 415 °C at 1,013 hPa q) Decomposition temperature No data available

r) Viscosity 0.83 mm2/s at 20 °C -

### 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.
10.5 Incompatible materials
Strong oxidizing agents, strong reducing agents, strong bases
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available

### **11. Toxicological information**

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - female - 10,760 mg/kg LC50 Inhalation - Rat - male and female - 4 h - > 21 mg/l LD50 Dermal - Rabbit - male and female - > 14,112 mg/kg Skin corrosion/irritation Skin - Rabbit - No skin irritation - 4 h - OECD Test Guideline 404 Serious eye damage/eye irritation Eyes - Rabbit - No eye irritation - OECD Test Guideline 405 Respiratory or skin sensitisation Germ cell mutagenicity Genotoxicity in vitro - Ames test - S. typhimurium - with and without metabolic activation - negative 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 **Developmental Toxicity - Rat - Inhalation** No adverse effect has been observed in chronic toxicity tests. Specific target organ toxicity - single exposure May cause drowsiness or dizziness. - Central nervous system 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 May cause eye irritation. Signs and Symptoms of Exposure Drowsiness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information Repeated dose toxicity - Rat - male and female - inhalation (vapour) RTECS: AF7350000

# **12.** Ecological information

12.1 Toxicity Toxicity to fish Flow-through test LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96 h Method: OECD **Test Guideline 203** Toxicity to daphnia and other aquatic invertebrates Static test EC50 - Daphnia (water flea) - 44 mg/l - 48 h Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 674.7 mg/l - 72 h 12.2 Persistence and degradability Biodegradability Aerobic - Exposure time 28 d Result: 83 % - Readily biodegradable. Method: OECD Test Guideline 301D 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment No data available 12.6 Other adverse effects Harmful to aquatic life.

#### 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 – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations		
14.1	UN Number	1123	1123	1123		
14.2	UN Proper Shipping name	BUTYL ACETATES	BUTYL ACETATES	Butyl acetates		
14.3	Transport Hazard Class	3	3	3		
14.4	Packaging group	111	111			
14.5	Environmental Hazards	No	No	No		
14.6	Special precautions for user	No data available.				

### 15. Regulatory information

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

HSNO Approval Code: HSR006409

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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