



Australian Specialty Inks Pty Ltd

ABN 71 002 591 620

17 Reaghs Farm Rd, Minto NSW 2566

Telephone: (02) 9603-3399 Fax (02) 9603-7761

Website: www.austspecialtyinks.com.au

EPOXY CATALYST

Product Number: FER176

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifiers

Product Name: EPOXY CATALYST

Product Number: FER176

Recommended Use of the chemical and restrictions on use: Use as a catalyst for FER series inks.

Company Details

AUSTRALIAN SPECIALTY INKS PTY LTD

A.B.N. 71 002 591 620

17 REAGHS FARM ROAD MINTO NSW 2566

(02) 9603-3399

A/H (02) 9792-7790 or mobile 0414 616247

Email: info@austspecialtyinks.com.au

Website: www.austspecialtyinks.com.au

Emergency Telephone Number

Mob: 0414616247

2. HAZARDS IDENTIFICATION

Classified as hazardous according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as Non-dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).


Poisons Schedule S5

Signal Word: Warning



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GHS Classification	Pictogram	Hazard Statement
Flammable Liquids – Category 4	N/A	H227 Combustible liquid
Acute Toxicity – Oral Category 4 Acute Toxicity – Dermal Cat 4 Acute Toxicity – Inhalation Cat 4 Eye Irritation – Category 2A Skin Irritation – Category 2 Specific target organ toxicity (single exposure) – Cat 3		H302 Harmful if swallowed H312 Harmful in contact with skin H332 Harmful if inhaled H319 Causes serious eye damage H315 Causes skin irritation H335 May cause respiratory irritation

Precautionary statements:

GENERAL	P101 P102 P103	If medical advice is needed, have product container or label at hand Keep out of reach of children Read label before use
PREVENTATIVE	P210 P261 P262 P264 P270 P271 P273 P280	Keep away from flames and hot surfaces – No Smoking Avoid breathing fume/mist/vapours/spray Do not get in eyes, on skin or on clothing Wash thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Avoid release to the environment Wear protective gloves/eye protection/face protection
RESPONSE	P301+P330+331 P302+P352 P304 + P340 P305+P351+P338 P312 P332+P313 P337+P313 P362 P363 P370+P378	If SWALLOWED: Rinse mouth. Do Not induce vomiting. If ON SKIN: Wash with plenty of soap and water. If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention If eye irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Wash contaminated clothing before use In case of fire: Use Alcohol stable foam, water spray or fog, dry chemical powder or carbon dioxide.



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STORAGE P403+P235 P405	Store in a well ventilated place. Keep cool Store locked up
DISPOSAL P501	Dispose of contents/container in accordance with local regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

Chemical entity	CAS Number	Proportion (%)
2-Butoxyethanol	111-76-2	< 16
Xylene	1330-20-7	< 25
Non-hazardous ingredients		Balance

4. FIRST-AID MEASURES

Description of necessary first aid measures

Inhalation:	Remove victim from exposure if safe to do so. Administer artificial respiration if breathing is stopped. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
Skin Contact:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available. Can be absorbed through skin with resultant toxic effects. Seek immediate medical assistance.
Eye Contact:	If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek immediate medical assistance.
Ingestion:	If swallowed, DO NOT induce vomiting. Keep at rest. Transport to nearest medical facility for additional treatment.

Symptoms caused by exposure

Inhalation:	Breathing in vapour will produce respiratory irritation. Breathing in high concentrations can produce central nervous system depression which can lead to unconsciousness.
Skin Contact:	



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	Can result in irritation. Will have a degreasing effect on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Can be absorbed through the skin. Effects can include those described for swallowing.
Eye Contact:	May result in redness, swelling and/or blurred vision.
Ingestion:	May result in nausea, vomiting and central nervous system depression (similar to drunkenness).

Medical attention and special treatment:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing equipment

Alcohol stable foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet.

Specific hazards arising from the chemical

Carbon monoxide and/or carbon dioxide may be evolved.

Special protective equipment and precautions for fire fighters

Combustible liquid. Wear liquid-tight chemical protective clothing and self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

Environmental precautions

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up

For small spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.



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For larger spills (> 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid breathing of or contact with material. Use in well ventilated areas. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Do not empty into drains. Before eating, drinking or smoking, remove contaminated clothing and wash hands.

Conditions for safe storage, including any incompatibilities

Do not store near strong oxidants, copper and natural rubber.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia –
2-Butoxyethanol: 96.9 mg/m³ (20ppm) TWA (8hr) skin, 242 mg/m³ (50ppm) STEL

Biological monitoring

No biological limit allocated.

Engineering controls

Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.



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Individual protection measures

Eye and face protection:	Wear safety goggles.
Skin protection:	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
Respiratory Protection:	If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65° C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Straw coloured varnish, strong odour
Odour:	Unpleasant
Odour threshold (ppm):	Data not available
Ph:	Data not available
Melting freezing point (°C):	-65
Initial boiling point and boiling range (°C):	137 - 171
Flash point (°C):	27 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Combustible
Upper/lower flammability or explosive limits (%):	1.1 – 10.6



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Vapour pressure (kPa@ 20°C):	.10
Vapour density (air = 1):	4.8
Density (g/ml @ 15°C):	.90
Solubility:	Partly miscible with water
Partition coefficient n-octanol/water:	Data not available
Auto-ignition temperature (°C):	230
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm²/s @ 20°C):	Data not available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions of use.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions

Stable under normal conditions of use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials

Strong oxidizing agents, copper and natural rubber.

Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Expected to be low toxicity - LD50 Oral (rat): 530-3000mg/kg LD50 Dermal (guinea pig):950- 1414mg/kg
Skin corrosion/irritation:	Mild irritant - Dermal LD50 Oral (rat): 100-610mg/kg Dermal LD50 Dermal (guinea pig):1200- 2000mg/kg
Serious eye damage/irritation:	May irritate the eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitizer.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not a carcinogen.
Reproductive toxicity:	Not expected to impair fertility
Specific Target Organ Toxicity (STOT) – single exposure:	Inhalation of vapours can result in headaches, dizziness, and possible nausea. Inhalation of higher concentrations can produce central nervous system depression and unconsciousness.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Available evidence from animal studies indicates that repeated or prolonged exposure could result in effects on the blood system, liver and kidneys.
Aspiration hazard:	Not considered to be an aspiration hazard.



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

Fish:	Data not available
Aquatic invertebrate:	Data not available
Algae:	Data not available
Microorganisms:	Data not available

Chronic toxicity

Fish:	Data not available
Aquatic invertebrate:	Data not available
Algae:	Data not available
Microorganisms:	Data not available

Persistence and degradability

Biodegradable.

Bioaccumulative potential

Negligible potential to bioaccumulate.

Mobility in soil

Partly miscible with water.

Other adverse effects

Data not available.



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13. DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

14. TRANSPORT INFORMATION

Australian Dangerous Goods Code 7 states –

2.3.2.5 Viscous Substances which:

- (a) have a flash point of 23°C or above and less than or equal to 60.5°C;
- (b) are not toxic or corrosive;
- (c) contain less than 20% nitrocellulose; and
- (d) are packed in receptacles of less than 450 litre capacity;

are not subject to this Code if:

- (a) in the solvent separation test (see 32.5.1) the height of the separated layer of solvent is less than 3% of the total height; and
- (b) the flow-time in the viscosity test (see 32.4.3) with a jet diameter of 6mm is equal to or greater than:
 - (i) 60 seconds or
 - (ii) 40 seconds if the viscous substance contains not more than 60% of Class 3 substances.

UN number:	Not applicable
Proper shipping name:	Not applicable
Australian Dangerous Goods class:	Not applicable
Australian Dangerous Goods packing group:	Not applicable
Hazchem code:	Not applicable

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	S5
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Australian Inventory of Chemical Substances (AICS):	Listed
Australian Dangerous Goods class:	Not applicable
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ):	Not applicable



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16. ANY OTHER RELEVANT INFORMATION

Date of preparation:	23/08/2019
Revision number:	1
Changes in this revision:	Update to GHS SDS standard