



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

Product Name: ENAMEL INKS

Product Number: F59

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifiers

Product Name: ENAMEL INKS

Product Number: F59

Recommended Use of the chemical and restrictions on use: Use as a printing ink

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.

Poisons Schedule 6

Signal Word: DANGER



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GHS Classification	Pictogram	Hazard Statement
Specific target organ toxicity (repeated exposure) – category 1		H372 Causes damage to organs through prolonged or repeated exposure.
Specific target organ toxicity (single exposure) – category 3		H335 May cause respiratory irritation
Flammable Liquids Cat 4	N/A	H227 Combustible liquid



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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	P201 P202 P210 P233 P240 P241 P242 P243 P261 P271 P273 P280 P281	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. – No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Avoid breathing fume/mist/vapours/spray Use only outdoors or in a well-ventilated area Avoid release to the environment Wear protective gloves/eye protection/face protection Use personal protective equipment as required
RESPONSE	P301+P310 P303+P361+P353 P312 P331 P370+P378 P391	If SWALLOWED: Immediately call a POISON CENTER or doctor/physician ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Call a POISON CENTER or doctor/physician if you feel unwell Do NOT induce vomiting In case of fire: Use foam, dry chemical or carbon dioxide for extinction Collect spillage
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
Pigments (Various to shade)		0 – 40%
Alkyd Resin		38 – 90%
Acrylic Resin		0 – 10%
Glycol Ether		3 – 9%
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	15 – 36%
12% Zirconium Driers		2 – 3%



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6% Cobalt Driers		.3 – 1%
Antiskinning Agent		1%
Silicone		.5 – 1%

4. FIRST-AID MEASURES

Description of necessary first aid measures

Inhalation:	Remove victim from exposure if safe to do so. 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. If irritation occurs seek medical advice.
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. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Symptoms caused by exposure

Inhalation:	Breathing of high vapour concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Skin Contact:	May include burning sensation, redness, swelling and/or dried cracked appearance.
Eye Contact:	May include burning sensation, redness, swelling and/or blurred vision.
Ingestion:	May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever. Irritation of the gastrointestinal tract.

Medical attention and special treatment: Treat symptomatically.



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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. Will float and can be reignited on surface water. Vapour is heavier than air, can spread along ground and distant ignition is possible.

Special protective equipment and precautions for fire fighters

Wear liquid-tight chemical protective clothing and self-contained breathing apparatus.

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.

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.



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7. HANDLING AND STORAGE

Precautions for safe handling

Flammable product. Avoid breathing vapours. 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. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

Conditions for safe storage, including any incompatibilities

Bulk storage tanks should be banded. Store in a well ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidizers and alkalis. Avoid prolonged contact with natural, butyl or nitrile rubbers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

The following exposure standard has been established by the Australian Safety and Compensation Council (ASCC).

TWA (parts per million) = 5 peak limitation

TWA (mg/m³) = 29 peak limitation

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. Vapour heavier than air – prevent concentration in hollows and sumps.



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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 ^o C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
Thermal hazards:	Not applicable.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Variously coloured pastes
Odour:	Enamel
Odour threshold (ppm):	Data not available
Ph:	Data not available
Melting freezing point (°C):	Data not available
Initial boiling point and boiling range (°C):	147 - 199
Flash point (°C):	36 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Combustible
Upper/lower flammability or explosive limits (%):	.9 – 7
Vapour pressure (kPa@ 20°C):	8
Vapour density (air = 1):	4.6
Density (g/ml @ 15°C):	Varies with pigment
Solubility:	Insoluble
Partition coefficient n-octanol/water:	Data not available
Auto-ignition temperature (°C):	Data not available
Decomposition temperature (°C):	Data not available
Kinematic viscosity (mm²/s @ 20°C):	> 60 Seconds Ford Cup with jet diameter of 6mm



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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

Reacts with strong oxidizing agents, nitric acid and sulphuric acid.

Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide. A complex mixture of airborne solids, liquids, gases and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 Oral (rat): 5000mg/kg LD50 Dermal (rabbit): 5000mg/kg LD50 Inhalation (rat, 4h): 10.8mg/kg
Skin corrosion/irritation:	May cause mild skin irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation:	Irritating to eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitizer.
Germ cell mutagenicity:	Data not available



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Carcinogenicity:	No information available.
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

Fish:	Expected to be toxic: $1 < \text{LC/EC/IC}_{50} < 180\text{mg/l}$
Aquatic invertebrate:	Expected to be toxic: $1 < \text{LC/EC/IC}_{50} > 408\text{mg/l}$
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



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Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Other adverse effects

Data not available.

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.



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UN number:	N/A
Proper shipping name:	N/A
Australian Dangerous Goods class:	N/A
Australian Dangerous Goods packing group:	N/A
Hazchem code:	N/A

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	Data not available
Australian Inventory of Chemical Substances (AICS):	Listed
Australian Dangerous Goods class:	N/A
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ):	N/A
Hazchem code:	N/A



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16. ANY OTHER RELEVANT INFORMATION

Date of preparation:	13/11/2017
Revision number:	1
Changes in this revision:	Update to GHS SDS standard