



# Australian Specialty Inks Pty Ltd

ABN 71 002 591 620

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ENAMEL THINNER

Product Number: F59-180

## SAFETY DATA SHEET

### 1. IDENTIFICATION

#### Product Identifiers

Product Name: ENAMEL THINNER

Product Number: F59-180

Recommended Use of the chemical and restrictions on use: Use as a thinning solvent

#### Company Details

AUSTRALIAN SPECIALTY INKS PTY LTD

A.B.N. 71 002 591 620

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#### 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 Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> Edition).





Poisons Schedule S5 Caution

Signal Words: DANGER



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GHS Classification	Pictogram	Hazard Statement
Flammable Liquids Cat 3		H226 Flammable liquid and vapour
Aspiration Hazard, Category 1		H304 May be fatal if swallowed and enters airways.
Specific target organ toxicity (narcosis) – category 3 Skin Corrosion/Irritation, Category 2		H336 May cause drowsiness or dizziness H315 Causes skin irritation
Chronic Aquatic Toxicity, Category 2		H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

<b>GENERAL</b>	P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children P103 Read label before use
<b>PREVENTATIVE</b>	P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood 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 and all other equipment P242 Use only non-sparking tools P243 Take precautionary measures against static discharge P261 Avoid breathing fume/mist/vapours/spray P262 Do not get in eyes, on skin or on clothing P270 Do not eat, drink or smoke when using this product



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P271 P273 P280	Use only outdoors or in a well ventilated area Avoid release to the environment Wear protective clothing, gloves, eye/face protection and suitable respirator
<b>RESPONSE</b> P301+P310 P303+P361+P353  P312 P330+P331 P332+P313 P304+P340  P308+P313 P337+P313 P370+P378 P362 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 Rinse mouth. Do NOT induce vomiting If skin irritation occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention. If eye irritation occurs: Get medical advice/attention In case of fire: Use foam, dry chemical or carbon dioxide for extinction Take off contaminated clothing and wash before reuse Collect spillage
<b>STORAGE</b> P403+P233 P403+P235 P405	Store in a well ventilated place. Keep container tightly closed Store in a well ventilated place. Keep cool Store locked up
<b>DISPOSAL</b> P501	Dispose of contents/container in accordance with local regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

Chemical entity	CAS Number	Proportion
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	30-60%
Solvent naphtha, petroleum, light aromatic	64742-95-6	10-30%
1,2,4 Trimethyl benzene	95-63-6	< 10%
1,3,5 Trimethyl benzene	108-67-8	< 10%
Xylene	1330-20-7	< 10%
Ingredients determined to be Non-Hazardous		Balance



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#### 4. FIRST-AID MEASURES

##### Description of necessary first aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

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. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Ingestion:	If swallowed, do NOT induce vomiting. Give a glass of water to drink. 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 a 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.

Medical attention and special treatment: Treat symptomatically. For advice contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

#### 5. FIRE-FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

##### Suitable extinguishing equipment

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



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### **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. Flameproof equipment is necessary in area where this chemical is being used. Nearby equipment must be earthed. Avoid all ignition sources. Do not smoke.

### **Special protective equipment and precautions for fire fighters**

Flammable liquid and vapour. 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.

## **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.



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### Conditions for safe storage, including any incompatibilities

Do not store near strong oxidants. Avoid prolonged contact with natural, butyl or nitrile rubbers. Store away from foodstuffs. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use – check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and/or the New Zealand NZS5433: Transport of Dangerous Goods on Land” and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure control measures

National occupational exposure limits:

Xylene                      80ppm 350 mg/m<sup>3</sup> TWA                      150ppm 655 mg/m<sup>3</sup> STEL.

TWA – The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL – Short Term Exposure Limit – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour day.

### 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. If necessary wear appropriate respirator. Keep containers closed when not in use.

**Personal Protection Equipment:** Safety shoes, overalls, gloves, safety glasses and respirator.



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### Individual protection measures

<b>Eye and face protection:</b>	Wear safety goggles.
<b>Skin protection:</b>	Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.
<b>Respiratory Protection:</b>	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 <sup>o</sup> C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.
<b>Thermal hazards:</b>	Not applicable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colourless clear liquid
<b>Odour:</b>	Aromatic Hydrocarbon
<b>Odour threshold (ppm):</b>	Data not available
<b>Ph:</b>	Data not available
<b>Melting freezing point (°C):</b>	Data not available
<b>Initial boiling point and boiling range (°C):</b>	150 - 193
<b>Flash point (°C):</b>	36.5 (closed cup)
<b>Evaporation rate (Butyl acetate = 1):</b>	Data not available
<b>Flammability:</b>	Flammable
<b>Upper/lower flammability or explosive limits (%):</b>	.5 – 8



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<b>Vapour pressure (@ 20°C):</b>	< .5
<b>Vapour density (air = 1):</b>	4.35
<b>Density (g/ml @ 15°C):</b>	.78 - .82
<b>Solubility:</b>	Not miscible with water
<b>Partition coefficient n-octanol/water:</b>	Data not available
<b>Auto-ignition temperature (°C):</b>	Typical 300
<b>Decomposition temperature (°C):</b>	Data not available
<b>Kinematic viscosity (mm<sup>2</sup>/s @ 20°C):</b>	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.

**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.





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11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Low toxicity: LD50 Oral (rat): > 2000 mg/kg
<b>Skin corrosion/irritation:</b>	This material has been classified as a Category 2 Hazard (reversible effects to skin).
<b>Serious eye damage/irritation:</b>	Moderately irritating to eyes (but insufficient to classify).
<b>Respiratory or skin sensitisation:</b>	Not expected to be a sensitizer.
<b>Germ cell mutagenicity:</b>	Not mutagenic.
<b>Carcinogenicity:</b>	Not expected to be carcinogenic.
<b>Reproductive toxicity:</b>	Not expected to affect reproduction.
<b>Specific Target Organ Toxicity (STOT) – single exposure:</b>	Not expected to be a respiratory irritant. Is classified as Category 3 Narcotic effects.
<b>Specific Target Organ Toxicity (STOT) – repeated exposure:</b>	This material has been classified as non-hazardous.
<b>Aspiration hazard:</b>	This material has been classified as Aspiration Hazard – Category 1. Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.



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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid contaminating waterways.

Acute toxicity

<b>Fish:</b>	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
<b>Aquatic invertebrate:</b>	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
<b>Algae:</b>	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
<b>Microorganisms:</b>	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$

Chronic toxicity

<b>Fish:</b>	Data not available
<b>Aquatic invertebrate:</b>	Data not available
<b>Algae:</b>	Data not available
<b>Microorganisms:</b>	Data not available

### Persistence and degradability

Readily biodegradable. Oxidises by photo-chemical reactions in air.

### Bioaccumulative potential

Has the potential to bioaccumulate.

### Mobility in soil

Floats on water.



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**Other adverse effects**

Data not available.

13. DISPOSAL CONSIDERATIONS

Ensure waste disposal conforms to local waste disposal regulations.

14. TRANSPORT INFORMATION

<b>UN number:</b>	1300
<b>Proper shipping name:</b>	TURPENTINE SUBSTITUTE
<b>Australian Dangerous Goods class:</b>	3
<b>Australian Dangerous Goods packing group:</b>	III
<b>Hazchem code:</b>	3Y

15. REGULATORY INFORMATION

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:</b>	5 (Caution)
<b>Australian Dangerous Goods class:</b>	3

16. ANY OTHER RELEVANT INFORMATION

<b>Date of preparation:</b>	14/11/2017
<b>Revision number:</b>	1
<b>Changes in this revision:</b>	Update to GHS SDS standard