



Australian Specialty Inks Pty Ltd

ABN 71 002 591 620

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VINYL RETARDER

Product Number: FGV182

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifiers

Product Name: VINYL RETARDER

Product Number: FGV182

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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2. HAZARDS IDENTIFICATION




Classified as hazardous according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS). Non-Dangerous Goods according to the Work, Health and Safety regulations, Australia and the ADG Code.

Signal Word: DANGER



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GHS Classification	Pictogram	Hazard Statement
Serious Eye Damage - Cat 1		H318 Causes serious eye damage.
Germ cell mutagenicity Cat 2		H341 Suspected of causing genetic defects.
Acute Toxicity (Oral) - Cat 4 Skin Corrosion/Irritation - Cat 2 Specific target organ toxicity (Single Exposure) – Cat 3		H302 Harmful if swallowed. H315 Causes skin irritation. H335 May cause respiratory irritation.

Precautionary statements:

<i>GENERAL</i>	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
<i>PREVENTATIVE</i>	P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P261 Avoid breathing fume/mist/vapours/spray P264 Wash thoroughly after handling. P271 Use only outdoors or in a well ventilated area P280 Wear protective gloves/eye protection/face protection P281 Use personal protective equipment as required
<i>RESPONSE</i>	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 If exposed or concerned: Get medical advice/attention. P301+ P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P310 Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/attention.



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P302+P352 P362 P304+P340	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<i>STORAGE</i> P403+P233 P405	Store in a well ventilated place. Keep container tightly closed. Store locked up
<i>DISPOSAL</i> P501	Dispose of contents/container in accordance with local regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

Chemical entity	CAS Number	Proportion
Lactone		99%
Glycol Ether		1%

4. FIRST-AID MEASURES

Description of necessary first aid measures

Inhalation:	Remove victim from exposure if safe to do so. If not breathing, give artificial respiration, if breathing is difficult give oxygen. Do not use mouth to mouth method. Induce artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory medical device. 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 shoes then wash skin thoroughly with water and follow by washing with soap if available. If irritation occurs seek medical advice. Thoroughly wash clothing and clean shoes before reuse.
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.



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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:	Will result in irritation. Will have a degreasing effect on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Eye Contact:	May include burning sensation, redness, swelling and/or blurred vision. Severe overexposure can result in injury or death.
Ingestion:	May include coughing, choking, wheezing, difficulty in breathing, chest congestion, vomiting, shortness of breath and/or fever. Irritation of the gastrointestinal tract. Central nervous depression (similar to drunkenness). Severe overexposure can result in injury or death.

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

5. FIRE-FIGHTING MEASURES

Clear fire area of all non-emergency personnel. Shut off product that may 'fuel' a fire if safe to do so. Eliminate ignition sources. 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.

Flammability Conditions

Avoid contamination with oxidizing agents ie nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc as ignition may result.

Suitable extinguishing equipment

Alcohol stable foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet. Do not allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

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.

Hazchem code: No applicable



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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. Increase ventilation and avoid breathing vapours, gas or mist. Avoid walking through spilled product. Use clean, non-sparking tools and 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

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.

Conditions for safe storage, including any incompatibilities

Do not store near strong acids or oxidants.

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

Exposure Limits

No data available.



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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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Odour:	Data not available
Odour threshold (ppm):	Data not available
Ph:	Data not available
Melting/freezing point (°C):	-44 to - 42
Initial boiling point and boiling range (°C):	204.6
Flash point (°C):	106 (closed cup)



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Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Not applicable
Upper/lower flammability or explosive limits (%):	Not available
Vapour pressure (@ 20°C):	.034
Vapour density (air = 1):	Not available
Density (g/ml @ 15°C):	1.124
Solubility:	Miscible
Partition coefficient n-octanol/water:	Data not available
Auto-ignition temperature (°C):	435
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.



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Incompatible materials

Strong acids, oxidizing agents and bases.

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:	Expected to be of low toxicity - LD50 Oral (rat): 1540 mg/kg LC50 Inhalation (rat): >48h – 5.1mg/L LD50 Dermal (rabbit): Non irritating
Skin corrosion/irritation:	Mild irritant: LD50 Dermal (rabbit) Non irritating Will cause skin irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation:	Will irritate eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitizer.
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Not classifiable.
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	Is a respiratory irritant.



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

Fish:	Expected to be toxic: 1 < LC/EC/IC50 56mg/l – 96h
Aquatic invertebrate:	Expected to be toxic: 1 < LC/EC/IC50 >500mg/l – 48h
Algae:	Expected to be toxic: 1 < LC/EC/IC50 <= 16.400mg/l
Microorganisms:	Expected to be toxic: 1 < LC/EC/IC50 <= 14mg/l

Chronic toxicity

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

Persistence and degradability

Expected to be readily biodegradable.

Bioaccumulative potential

Has the potential to bioaccumulate.

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

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:	Not applicable
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:	22/05/2018
Revision number:	3
Changes in this revision:	Update to GHS SDS standard