



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

PLASTIVAC RETARDER

Product Number: F70-182

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifiers

Product Name: PLASTIVAC RETARDER

Product Number: F70-182

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

17 REAGHS FARM ROAD MINTO NSW 2566

(02) 9603-3399

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

Email: info@austspecialtyinks.com.au

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





Poisons Schedule 5

Signal Words: DANGER



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GHS Classification	Pictogram	Hazard Statement
Flammable Liquid, Category 3		H226 Flammable liquid and vapour
Aspiration Hazard, Category 1 Carcinogenicity, Category 2 Toxic To Reproduction		H304 May be fatal if swallowed and enters airways. H351 Suspected of causing cancer. H360D May damage fertility or the unborn child
Serious Eye Damage/Irritation - Category 2A Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4 Specific target organ toxicity (single exposure) – category 3		H319 Causes serious eye irritation. H302 Harmful if swallowed. H312 Harmful in contact with skin. H335 May cause respiratory irritation
Acute Aquatic Toxicity, Category 2 Chronic Aquatic Toxicity, Category 2		H411 Toxic to aquatic life with long lasting effects.



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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 P261 P262 P270 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 Avoid breathing fume/mist/vapours/spray Do not get in eyes, on skin or on clothing 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 Use personal protective equipment as required
RESPONSE	P301+P310 P303+P361+P353 P305+P351+P338 P312 P337+P313 P330+P331 P332+P313 P304+P340 P308+P313 P337+P313 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 If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to get to do. Continue rinsing. If eye irritation persists: Get medical advice/attention 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. In case of fire: Use foam, dry chemical or carbon dioxide for extinction Take off contaminated clothing and wash before reuse 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
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	MED(10-60%)
Naphthalene	91-20-3	< 2%
1,2,4 Trimethyl benzene	95-63-6	< 1%
Ketone		MED(10-60%)



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Ketone Alcohol		MED(10-60%)
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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. If symptoms persist transport to nearest medical facility for additional treatment.
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 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.

Special protective equipment and precautions for fire fighters

Flammable liquid. 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.

Conditions for safe storage, including any incompatibilities

Do not store near strong oxidants. Avoid prolonged contact with natural, butyl or nitrile rubbers.



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Product Number: F70-182

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure control measures

In the absence of data from National Occupational Health & Safety Commission (NOHSC) Worksafe Australia the following is recommended to be adopted: 100 mg/m³ TWA (8hr).

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:	Colourless clear liquid
Odour:	Aromatic
Odour threshold (ppm):	Data not available
Ph:	Data not available



PLASTIVAC RETARDER

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Melting freezing point (°C):	Data not available
Initial boiling point and boiling range (°C):	150 - 214
Flash point (°C):	54 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Flammable
Upper/lower flammability or explosive limits (%):	.01 – 7
Vapour pressure (@ 20°C):	< 1.3
Vapour density (air = 1):	4.8
Density (g/ml @ 15°C):	.88 - .91
Solubility:	Partially miscible with water
Partition coefficient n-octanol/water:	Data not available
Auto-ignition temperature (°C):	333
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.



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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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Low toxicity: LD50 Oral (rat): > 2000 mg/kg
Skin corrosion/irritation:	Low toxicity: LD50 Dermal (rat): > 2000 mg/kg May cause mild skin irritation. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation:	Moderately irritating to eyes (but insufficient to classify).
Respiratory or skin sensitisation:	Not expected to be a sensitizer.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Naphthalene – Classified by the International Agency for Research on Cancer (IARC) as a Group 2B – The agent is possibly carcinogenic to humans.
Reproductive toxicity:	Not expected to affect reproduction.
Specific Target Organ Toxicity (STOT) – single exposure:	Not expected to be a respiratory irritant.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Central nervous system: repeated exposure affects the nervous system.
Aspiration hazard:	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity

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

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. Oxidises by photo-chemical reactions in air.

Bioaccumulative potential

Has the potential to bioaccumulate.

Mobility in soil

Floats on water. Adsorbs to soil and has low mobility.

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:	1993
Proper shipping name:	FLAMMABLE LIQUID N.O.S.* (CONTAINS DIACETONE ALCOHOL)
Australian Dangerous Goods class:	3
Australian Dangerous Goods packing group:	III
Hazchem code:	● 2Y

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Dangerous Goods class:	3
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ):	47

16. ANY OTHER RELEVANT INFORMATION

Date of preparation:	22/05/2018
Revision number:	1
Changes in this revision:	Update to GHS SDS standard