



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

NYLOPRINT RETARDER

Product Number: FNP182

SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifiers

Product Name: NYLOPRINT RETARDER

Product Number: FNP182

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

Company Details

AUSTRALIAN SPECIALTY INKS PTY LTD

A.B.N. 71 002 591 620

17 REAGHS FARM ROAD MINTO NSW 2566

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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 (7th Edition).



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GHS Classification	Pictogram	Hazard Statement
Flammable Liquids – Category 3		H226 Flammable liquid and vapour.

Signal Word: Warning

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 P233 P240 P241 P242 P243 P280	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. Wear protective gloves/eye protection/face protection.
RESPONSE	P303+P361+353 P370+P378	If ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use dry chemical, alcohol resistant foam or dry sand for extinction.
STORAGE	P403+P235	Store in a well ventilated place. Keep cool
DISPOSAL	P501	Dispose of contents/container in accordance with local regulations

Dangerous Goods Classification: 3 Flammable Liquids

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Names and Proportions

Chemical entity	CAS Number	Proportion (%)
Ethyl 3-Ethoxypropionate	763-69-9	> 99



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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. Seek immediate medical assistance if irritation occurs.
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. Wash mouth with water and give a glass of water to drink.

Symptoms caused by exposure

Inhalation:	None Expected.
Skin Contact:	None Expected.
Eye Contact:	May include mild irritation, redness and itchiness.
Ingestion:	A small amount is not expected to cause discomfort.

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.



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Special protective equipment and precautions for fire fighters

Clear the fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. Wear liquid-tight chemical protective clothing (includes fire-fighting helmet, coat, trousers, boots and gloves) and self-contained breathing apparatus (SCBA). Please note : Structural fire fighters uniform will provide limited protection.

Flash Point: 58°C

Lower Explosion Limit: 1.05

Upper Explosion Limit: 9.8

Auto Ignition Temperature: 377°C

Hazchem Code: ●3Y

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. Remove all sources of ignition in the surrounding area. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Use clean, non-sparking tools and equipment. Take precautionary measures 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. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

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 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 –
No specific exposure limit has been established; however a general limit dusts and mists could apply: 10mg/m³.

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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless clear liquid
Odour:	Pungent
Odour threshold (ppm):	Data not available
Ph:	Data not available
Melting freezing point (°C):	Data not available
Initial boiling point and boiling range (°C):	170
Flash point (°C):	58 (closed cup)
Evaporation rate (Butyl acetate = 1):	Data not available
Flammability:	Flammable
Upper/lower flammability or explosive limits (%):	Data not available
Vapour pressure (kPa@ 20°C):	2.30
Vapour density (air = 1):	5.03
Density (g/ml @ 20°C):	.951
Solubility (in water @ 20°C):	1.6%
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):	Data not available



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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

Strong oxidizing agents, strong acids and bases.

Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Low toxicity - LD50 Oral (rat): > 5000mg/kg
Skin corrosion/irritation:	Not expected to cause skin irritation
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



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Specific Target Organ Toxicity (STOT) – single exposure:	Data not available.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Data not available.
Aspiration hazard:	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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

Has negligible potential to bioaccumulate.



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Mobility in soil

Data not available.

Other adverse effects

Data not available.

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. (Ethyl 3-Ethoxypropionate)
Australian Dangerous Goods class:	3
Australian Dangerous Goods packing group:	III
Hazchem code:	●3Y

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	Not scheduled.
Australian Inventory of Chemical Substances (AICS):	Listed
Australian Dangerous Goods class:	3
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	14



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16. ANY OTHER RELEVANT INFORMATION

Date of preparation:	26/11/2016
Revision number:	3
Changes in this revision:	Update to GHS SDS standard