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Issue date: August 2011

ETHYL ACETATE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ETHYL ACETATE **Manufacturer's Product Code:** DR5

Use: Printing ink retarder

DYEPAC LIQUID INKS PTY. LTD. A.C.N. 009 995 215 A.B.N.94 009 995 215 29 ENTERPRISE STREET CLEVELAND QLD 4163 Phone: (07) 3821 0899 FAX: (07) 3821 0788 e-mail : info@dyepac.com.au Web : http://www.Dyepac.com.au

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO ASCC/NOHSC/EU CRITERIA

Hazard Category: Irritant (Xi), Flammable (F)

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS

RISK PHRASES

- R11 Highly flammable
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness and cracking.
- R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

- S16 Keep away from sources of ignition No smoking.
- S29 Do not empty into drains.
- S33 Take precautionary measures against static discharge.

Road Transport (ADR/RID):

UN Number: 1173 Proper Shipping Name: ETHYL ACETATE Dangerous Goods Class: 3 Packing Group: II

Poison Schedule: None allocated [Aust].

Warning Statement: Irritating to eyes. Highly flammable liquid. Avoid sources of igntion, heat and naked flames.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
ETHYL ACETATE	100 %	141-78-6

All other ingredients not hazardous according to ASCC/NOHSC/EU Criteria.

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4. FIRST AID MEASURES

Swallowed:

If swallowed, <u>**DO NOT**</u> induce vomiting. If victim conscious, give 1 to 2 glasses of water to drink. Seek urgent medical assistance.

Eye:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes..

Skin:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult. Transport to hospital or doctor immediately.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically. For advice, contact Poisons Information Centre In Australia call Tel: 13 1126 In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

SUITABLE EXTINGUISHING MEDIA: Foam, dry chemical or carbon dioxide.

HAZARDS FROM COMBUSTION PRODUCTS: On combustion or on thermal decomposition (pyrolysis), there will be a release of oxides of carbon and noxious smoke.

PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire.

HAZCHEM CODE: 3[Y]E [Aust]

FLAMMABILITY

This material is a HIGHLY FLAMMABLE liquid.Flash Point:7°CFlammability Limits:LEL: 2.2 %UEL: 9.0 %

Auto-ignition Temperature: 426°C.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Highly flammable liquid. Avoid all sources of ignition. Keep unnecessary people away; Isolate hazard area and deny entry. Ventilate area. Wear suitable protective equipment as outlined under personal protection in this MSDS.

Methods and Materials for Containment and Clean Up Procedures:

Throw diatomaceous earth onto spill. **<u>DO NOT</u>** use sawdust. Use non-sparking tools or HEPA vacuum system to pick up. Place into labelled drum(s) for later disposal. If risk of fire, blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

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6. ACCIDENTAL RELEASE MEASURES (continued)

Emergency information(Transport):

Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:2004) For **LIQUIDS** - Highly Flammable, Guide No: 14

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Highly flammable liquid. Avoid ignition sources. Do not get in eyes. Avoid direct or prolonged contact with skin. Provide adequate ventilation.

Conditions for Safe Storage:

Keep containers tightly closed, when not using the product. Store in original packages as approved by manufacturer. Store in an area that is dry and well-ventilation away from ignition sources. The floor of the depot should be impermeable. Store away from oxidizing agents. For further information please refer to the Engineering Controls of this MSDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

The following exposure standards have been assigned by [NOHSC] to the following component of the product:

ETHYL ACETATE [NOHSC]

[TWA] 200 ppm 722 mg/m³

Notices: Ammended

References: H;Ch

Engineering Controls

Highly flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition.

Personal Protection Equipment

GLOVES: Neoprene or nitrile.

EYES: Chemical goggles or spectacles with side shields to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours. Filter capacity and respirator type depends on exposure levels and type of contaminant. Select and use respirators in accordance with AS/NZS 1715. When vapours exceed the exposure standards and there is no suitable ventilation systems then the use of a half-face respirator fitted with an organic vapour cartridge is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Water white liquid with pungent fruity odour.
Boiling Point:	77°C
Melting Point:	-83°C
Vapour Pressure:	100 mHg @ 20°C
Specific Gravity:	0.902 @ 20°C
Flash Point:	7°C
Flammability Limits:	LEL: 2.2 % UEL: 9.0 %
Solubility in Water:	Miscible

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Other Properties

Solubility in Other Solvents: Auto-ignition Temperature: Soluble in ether and alcohol 426°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable under normal conditions of use.

CONDITIONS TO AVOID:

Ignition sources and mixing with incompatibles.

INCOMPATIBLE MATERIALS:

Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon and noxious smoke.

HAZARDOUS REACTIONS:

Will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed:

May cause irritation to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

Will cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

May cause irritation to the skin, with effects including; Redness and itchiness.

Inhaled:

Mists or vapours will cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination and chest pains.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis. Prolonged contact may cause severe eye irritation and some form of permanent eye damage may occur. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

12. ECOLOGICAL INFORMATION

No ecological information available for this product. However, do not discharge large quantities into waterways, drains or sewers.

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13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Advise highly flammable nature. If large amounts of the product enter waterways, sewers or streams, immediately contact the Environmental Protection Agency or your Local Waste Management Authority.

14. TRANSPORT INFORMATION

Road Transport (ADR/RID): UN Number: 1173 Proper Shipping Name: ETHYL ACETATE Dangerous Goods Class: 3 Packing Group: II

Air Transport (IATA) UN Number: 1173 Proper Shipping Name: ETHYL ACETATE Dangerous Goods Class: 3 Packing Group: II

Sea Transport (IMDG) UN Number: 1173 Proper Shipping Name: ETHYL ACETATE Dangerous Goods Class: 3 Packing Group: II

15. REGULATORY INFORMATION

Poison Schedule: None allocated [Aust]

Inventory Status:
Australia (AICS)
United States (TSCA)
Europe (EINECS/ELINCS)

Y = all ingredients are on the inventory.

EU Label: Irritant (Xi), Highly Flammable (F)

16. OTHER INFORMATION

Date of Preparation:

Issue date: August 08, 2011

Supersedes: August 21, 2008

Reasons for Update:

1. Review of fields and data, promoting uniformity of MSDS.

2. Changes to Sections 2, 4, 6, 8, 11, 15 & 16, based upon SUSDP first aid information.

Y Y Y

Key Legend Information:

NOHSC - National Occupational Health & Safety Commission {Formerly Worksafe}[Aust] ASCC - Australian Safety and Compensation Council [Aust] SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons [Aust] TWA - Time Weighted Average [Int] STEL - Short Term Exposure Limit [Int]

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16. OTHER INFORMATION (continued)

AICS - Australian Inventory of Chemical Substances Dangerous Goods - Initial Emergency Response Guide (SAA/SNZ HB76:2004) [Aust] EPA - Environmental Protection Agency [Int] NIOSH - National Institute for Occupational Safety and Health [US] TSCA - Toxic Substances Control Act [US] OSHA - Occupational Safety and Health Administration [US] AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ] AS/NZS 1716 - Respiratory protective devices. [Aust/NZ] Hazchem Code - Fire fighters designation [Aust] IATA - International Aviation Transport Authority [Int] ICAO - International Civil Aviation Organization [Int] IMO - International Maritime Organisation. [Int] IMDG - International Maritime Dangerous Goods [Int] United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int] EINECS - European Inventory of Existing Commercial Chemical Substances. [Int] ELINCS - European List of Notified Chemical Substances. [Int] EU - European Union [Int] ADR/RID - European Road & Rail Transport Union - [Int]

EU Directives: The classification criteria used, are adopted from the European Community's (EC) legislation for classifying dangerous substances. The criteria are taken from:

EC Council Directive 67/548/EEC EC Council Directive 1999/45/EC

[Aust/NZ] = Australian New Zealand [Int] = International [US] = United States of America

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

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END OF MSDS