

SAFETY DATA SHEET

Hazardous Chemical, Dangerous goods

1: MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name: XLD SERIES DYES

Synonyms: ~

Product Code: 102.517

Recommended use: Universal dye

Supplier: PCA BARHAM Pty Ltd
ABN: 17 001 283 227
Address: 7 CAMPBELL STREET ARTARMON, NSW 2064
TELEPHONE: 02 9436 0259
FAX: 02 9438 1882
EMERGENCY 000 or 02 9436 0259,

2. HAZARDS IDENTIFICATION

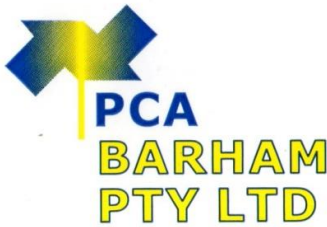
This product is hazardous according to health criteria of Safe Work Australia.



Signal Word: WARNING

Hazard Classifications

Flammable liquids – Category 2
Serious Eye Damage/Irritation – Category 1
Aspiration Hazard – Category 1
Skin/Corrosion Hazard – Category 2
Skin Irritation – Category 2
Toxic to Reproduction – Category 1A



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Specific Target Organ Toxicity (Single Exposure) – Category 3 narcotic effects
Specific Target Organ Toxicity (Repeated Exposure) – Category 2
Chronic Hazard to the Aquatic Environment – Category 2

Hazard Statements

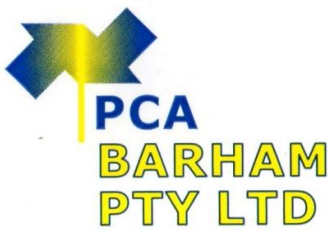
- H225 Highly inflammable liquid and vapour
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects

Prevention Precautionary Statements

- P102 Keep out of reach of children
- P103 Read label before use.
- 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.
- P223 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.
- P260 Do not breath dust, fume, gas, mist, vapours or spray.
- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P264 Wash hands, face and all exposed skin thoroughly after handling.
- P271 Use only outdoors, or in well ventilated area.
- P280 Wear protective clothing, gloves, eye/face protection and suitable respirator..
- P281 Use personal protective equipment as required

Response Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
- P301,310, IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
- P302,352, IF ON SKIN: Wash with plenty of soap and water.
- P303,361,353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- P304,340, IF INHALED: Remove victim to fresh air, and keep at rest in a position comfortable for breathing.
- P308,313, If exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
- P314 Get medical attention if you feel unwell.



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- P331 Do NOT induce vomiting.
- P332,313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing, and wash before reuse.
- P370,378, In case of fire: Use Carbon Dioxide, dry chemical or foam for extinction

Storage Precautionary Statements

- P403,233, Store in well ventilated place. Keep container tightly closed.
- P403,235, Store in well ventilated place. Keep cool.
- P405 Store locked up.

Disposal Precautionary Statement

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule: S5 and S6. Caution

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road and Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”

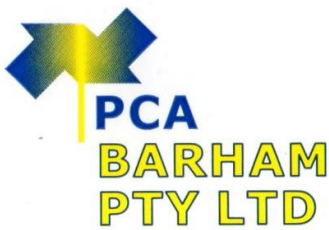
Dangerous Goods Class: 3

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NUMBER	PROPORTION
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	>=25-<35%
1-METHOXY-2-PROPANOL	107-98-2	>=25-<35%
4-HYDROXY-4-	N/A	>=25-<35%
Non Hazardous ingredients		balance of items

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre, phone Aust: 131126, NZ 0800764766



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Inhalation: Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing, and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing, and flush skin and hair with running water. Continue flushing with water until advised to stop by poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital, For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact: if in eyes, wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

Ingestion; Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs, give further water. Immediately call Poisons Centre or Doctor.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: 3YE

Suitable extinguishing media: If material is involved with a fire, use alcohol-resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Highly flammable liquid and vapour. May form flammable mixtures with air. Flameproof equipment necessary in area where this chemical being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark-producing switches and electrical equipment etc.) must be eliminated in and near the work area. Do NOT smoke.

Fire fighting further advice: heating can cause expansion or decomposition leading to violent ruptures of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work upwind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 16

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. 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 and 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 & PERSONAL HANDLING

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
XLD SERIES DYES :	150	445	300	2375	Sk

As published by Safe Work Australia.

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 working day.

Skin Notice – absorption through skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, CHEMICAL GOGGLES, RESPIRATOR.

Wear safety shoes, overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of A S/NZS 1715 and AS/NZS 1716. Available information that gloves should be suitable for intermittent

contact. However, due to variations in glove construction and local conditions, the user should make final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink, and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the work station location.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Thin liquid
Colour:	Various colours
Odour:	Characteristic
Solubility in water:	100%
Density:	1.00-1.05
Vapour Pressure:	estimated 12 – 15 kPa (at 20°C)
Flash Point:	< -20°C
Auto Ignition Temperature:	350 – 530°C
Boiling Point range:	56 – 110°C
Evaporation rate:	>6 (n-Butyl Acetate=1)

Typical values only, consult specification sheet.

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of Carbon and Nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION.

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

Acute effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness, and possible nausea. Inhalation of high concentrations can

produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant

Acute Toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate >20mg/L

Skin Contact: This material has been classified as non-hazardous. Acute toxicity estimate: >2000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate: >2000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

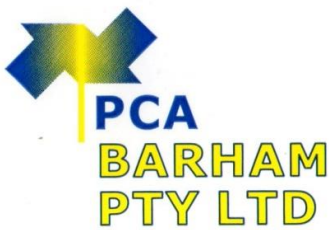
Specific target organ toxicity (single exposure): This material has been classified as a Category 3 Hazard Exposure via inhalation may result in depression of the central nervous system.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: : This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.



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Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 hazard.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate: > 100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data. Acute toxicity data: >100 mg/L, where the substance is not - rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulation potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS.

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and it's container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and International Regulations

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road and Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”.



UN No.:	1263
Dangerous Goods Class:	3
Packing Group:	II
Hazchem Code:	3YE
Emergency Response Guide No.:	16

Proper Shipping Name: LIQUID DYE

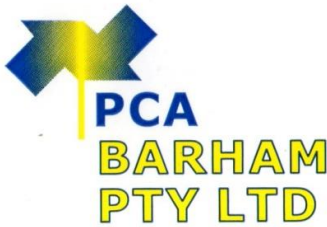
Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2), or radioactive substances (Class 7). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No:	1263
Dangerous Goods Class:	3
Packing Group:	II

Proper Shipping Name: LIQUID DYE



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AIR TRANSPORT

(IATA) Dangerous Goods Regulations to transport by air.

UN No.: 1263
Dangerous Goods Class: 3
Packing Group: II
Proper Shipping Name: LIQUID DYE

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material is subject to the following International Agreements:

Basel Convention (Hazardous Waste) - Wastes from the production, formulation and use of organic solvents.

The material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth)
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS)

16. OTHER INFORMATION

Reason for issue: First issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied. And since conditions of use are beyond our control, all information relevant to the usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified and altered versions. If you are an employer, it is your duty to tell employees, and others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

END OF SDS