



MATERIAL SAFETY DATA SHEET

Based on available information, not classified as hazardous according to criteria of NOHSC.
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

1. Identification of the substance/preparation and of the company

Product Name: ECODYE BLUE

Supplier: Ecokem Pty Ltd

ACN: 110 610 127

Address: PO.Box 4774 Knox City, Wantirna Vic; 3152 Australia

Telephone Number: (03) 9729 6010

Facsimile: (03) 9720 6407

2. Composition/information on ingredients

Product Description: Used as a marker dye for agricultural applications

Components	CAS Number	Proportion
Sulphonated aromatic acid dyestuff		90 gm/L

3. Hazards identification

Poisons Schedule: None allocated.

4. First-aid measures

Inhalation: Remove victim from area of exposure. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If, irritation occurs seek medical assistance.

Eye Contact: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Seek medical treatment if effects continue after first aid treatment

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Notes to physician: Treat symptomatically.

5. Fire-fighting measures

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: Not flammable.

Flammability limits: Not applicable. This product is not flammable.

Extinguishing Media: carbon dioxide, dry chemical, foam, water, fog.

Special Fire Fighting procedures: When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds.



6. Accidental release measures

Stop leak if safe to do so, contain spill and adsorb with clay, sand, or proprietary adsorbent (eg vermiculite). Sweep, shovel up, and collect in sealed labelled, open top containers for disposal.

In the event of a spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services

7. Handling and storage

Handling advice : Avoid skin and eye contact and breathing in mists.

Storage advice:. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and store away from incompatible materials described in Section 10 below.

8. Exposure controls/personal protection

Occupational Exposure Limits: A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for any of the major ingredients in this product. There is a blanket limit of $10\text{mg}/\text{m}^3$ for dusts or mists when limits have not otherwise been established.

Engineering Control Measures: In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protective Equipment:

Respiratory Protection: The use of a dust or vapour mask is suggested when this product is being used, especially if in confined or dusty spaces. For help in selecting suitable equipment, consult AS/NZS 1715.

Protective Gloves: Impermeable protective gloves should be worn when you are using this product, to prevent irritation. For help in selecting suitable equipment, consult AS 2161.

Eye Protection: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.

Clothing: This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice. Consult AS2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Physical state: Blue liquid.

Solubility: Soluble in water.

Specific Gravity: 1.06 approx. @20°C

Flash Point (°C): > Non Flammable

pH: 5 - 6

10. Stability and reactivity

Stability: Materials to avoid: strong acids, strong bases, strong oxidising agents

This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.



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 that may arise if the product is mishandled are:

Swallowed: The product is of low acute toxicity in the rat.

Eye: Eye contact may result in slight irritation.

Skin: Prolonged or repeated contact may result in slight irritation.

Inhalation: Avoid breathing vapour, dust, spray or fumes

Long Term Effects: In 1987, the International Agency for Research on Cancer (IARC) determined that Sulphonated aromatic acid blue dyestuff was not classifiable as to its carcinogenicity to humans due to the absence of adequate data in humans and limited evidence in animals. Subsequent lifetime feeding studies in rats and mice indicate that Sulphonated aromatic acid blue dyestuff is not carcinogenic. There are no other known chronic effects associated with this material. The low oral toxicity of Sulphonated aromatic acid blue dyestuff is consistent with its poor absorption (<5%) from the gastrointestinal tract. Sulphonated aromatic acid blue dyestuff is irritating to the skin of humans and the eyes of rabbits.

Toxicological Data:

The product was not tested. The statement was derived from products of similar composition.

LD50/oral/rat : >5000 mg/kg

Primary skin irritation/rabbit/OECD 404 : non irritant

Primary eye irritation/rabbit/OECD 405 : non irritant

12. Ecotoxicological information

The product was not tested. The statement was derived from products of similar composition.

Toxicity to daphnids (acute)(dyestuff) : EC50 (48hr) : 100 mg/l, Daphnia magna

Toxicity to bacteria (dyestuff) : EC10 (- h) : >10000 mg/l

Toxicity to fish : LC50 (96 hr) : >220 <460 mg/l, Leuciscus idus (dyestuff)

LC50 (96 hr) : >1000 mg/l, Oncorhynchus mykiss

LCo (48 hr) : 100 mg/l, Leuciscus idus (dyestuff)

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Elimination information : Test method : static test

Method of analysis : photometry

Degree of elimination : <10%

All components in this product are listed on the Australian Inventory of Chemical Substances (AICS)

13. Disposal considerations

This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

14. Transport information

No special storage and transport requirements. This product has no UN classification. Not a Scheduled Poison.

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

**Marine Transport**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory information

Based on information available, not classified as hazardous according to criteria of NOHSC.

Poisons Schedule: None allocated

AICS (Australia): All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. Other information**Reason(s) for Issue:**

CONTACT POINT: Phone: 9729 6010 or Mobile: 0418 844 861

All information contained in this document is as accurate as possible based on the information submitted by raw material suppliers. ECOKEM Pty Ltd will not accept any responsibility for any damage that may result from reliance upon the information contained herein.

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