

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: ENVIRODYE RED

Supplier: SST Australia Pty Ltd

ACN: 052 854 833

Address: PO.Box 2032 Bayswater Village, Bayswater Vic; 3153 Australia

Telephone Number: (03) 97206306

Facsimile: (03) 97206407

2. Composition/information on ingredients

Product Description: Used as a marker dye for agricultural applications

Components	CAS Number	Proportion
Diazo Dye		
Water to 100%		

3. Hazards identification

Poisons Schedule: None allocated.

4. First-aid measures

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. 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.

Unusual Fire & Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. This product may form flammable or explosive dust clouds in air.



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. Water.

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 make sure that the product does not come into contact with incompatible materials described in Section 10.

Storage temperature : 40 F (5 C) Minimum

Special Sensitivity : protect from freezing

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 10mg/m³ 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: Red liquid.

Solubility: Soluble in water.

Specific Gravity: 1.1 approx. @20 °C

Flash Point (°C): > Non Flammable

pH: 8-9

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: Single dose oral toxicity is considered to be low. No hazards are anticipated from swallowing small amounts incidental to normal handling operations. However, avoid swallowing. Inhalation of urea can be irritating to the mucous membranes of the respiratory tract resulting in coughing, sore throat and runny nose.

Eye: This product may irritate eyes. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any significant lasting effects.

Skin: This product may be mildly irritating to skin. However, it is unlikely to cause any more than mild transient discomfort. It is also unlikely to cause any lasting effects.

Inhalation: Data indicates that this product may be irritating if inhaled. May lead to minor discomfort which should quickly disappear once exposure has ceased.

Long Term Effects: No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995), nor in NOHSC's "List of Designated Hazardous Substances" (April 1999).

Toxicological Data:

Swallowed : SLIGHT (Oral,Rat LD50) >5000 mg/kg

Eye: NON IRRITANT - OECD 405, RABBIT

Skin: NON IRRITANT - RABBIT

NOT SENSITISING - OECD 406, GUINEA PIG

Inhaled: NOT YET AVAILABLE

Adverse effects in man : no adverse effects reported

12. Ecotoxicological information

BOD 5 : 0 mgO₂/g

COD : 216 mgO₂/g

TOC : 7 %

Fish toxicity : SPECIES : ZEBRA FISH, 96HR. OECD 203

LC50 : >1000 mg/l

EC0(DAPHNIA) >100mg/l, 48HR. OECD 202

Toxicity to Bacteria . . : IC50 : >400 mg/l, 3HR. OECD 209

OECD Biological degradation : 10-25% OECD 302B

Alga, growth inhibition . . : EC50 > 100 mg/l, 72 HR. OECD 201

Heavy-metal content . . . : METAL CONTENT UNDER THE ETAD REC. LIMITS

Phosphorous content . . . : N/A %

NOT TOXIC OR HARMFUL TO AQUATIC ORGANISMS.

BEHAVIOUR IN TREATMENT PLANTS: NO INHIBITION. NO NITRIFICATION INHIBITION KNOWN.

POORLY ELIMINATED BY ADSORPTION ON EFFLUENT TREATMENT SLUDGE.

TESTED MATERIAL: STANDARDISED PRODUCT.

NOTE: PREVENT SPILLAGE FROM ENTERING WATERWAYS OR DRAINS.

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: John Illingworth Phone: 9720 6306 or Mobile: 0418 844 861

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