



Safety Data Sheet

according to WHS Regulations

Printing date 07.12.2021

Revision: 07.12.2021

1 Identification

Product Name: Apparent Blue Vegetable Marker Dye**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:**

A liquid blue colouring dye for marking vegetation.

Details of Manufacturer or Importer:AIRR Apparent Pty Ltd
15/16 Princes Street
Newport, NSW, 2106**Phone Number:** 03 5820 8400**Emergency telephone number:** 0437 303 689

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Warning**Hazard Statements**

H302 Harmful if swallowed.

Precautionary Statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 111-46-6	2,2'-oxybisethanol	 Acute Toxicity (Oral) 4, H302	25-35%
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Non Hazardous Components:

CAS: 3844-45-9	Acid blue 9		35-45%
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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

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Eye Contact:

In case of eye contact, hold eyelids open and flush with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water and give plenty of water to drink.. Never give anything by mouth to an unconscious person. Seek medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. Symptoms include irritation to the mucous membranes and respiratory tract, headaches, and nausea.

Skin Contact: May cause skin irritation. Symptoms include skin defatting and dermatitis. Product will stain the skin and may persist for some time.

Eye Contact: May cause eye irritation. Symptoms include corneal burns.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Symptoms include central nervous system depression.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include toxic fumes.

Product is non-flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. Wash spill site with detergent and water.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep away from direct sunlight. Keep away from children, animals, strong oxidising agents, food, feedstuffs, seed, and fertilisers.

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8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 111-46-6 2,2'-oxybisethanol**WES TWA: 100 mg/m³, 23 ppm**Engineering Controls:**

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical resistant protective rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing including overalls (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:**Form:**

Liquid

Colour:

Blue

Odour:

Odourless

Odour Threshold:

No information available

pH-Value (10 g/l) at 20 °C:

5-6 (as suspension)

Melting point/freezing point:

No information available

Initial Boiling Point/Boiling Range:

No information available

Flash Point:

No information available

Flammability:

Product is non-flammable.

Auto-ignition Temperature:

No information available

Decomposition Temperature:

No information available

Explosion Limits:**Lower:**

No information available

Upper:

No information available

Vapour Pressure:

No information available

Density:

No information available

Relative Density at 20 °C:

1.1

Vapour Density:

No information available

Evaporation Rate:

No information available

Solubility in Water:

Soluble

Partition Coefficient (n-octanol/water): No information available

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Viscosity: No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Direct sunlight and humidity.**Incompatible Materials:** Strong oxidising agents, food, feedstuffs, seed, and fertilisers.**Hazardous Decomposition Products:** Toxic fumes.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 3844-45-9 Acid blue 9**

Oral	LD50	>1,900 mg/kg (rat)
	LD50	4,600 mg/kg (mouse)

CAS: 111-46-6 2,2'-oxybisethanol

Oral	LD50	12,565 mg/kg (rat)
	LD50	11,890 mg/kg (rabbit)

Acute Health Effects**Inhalation:**

May cause respiratory irritation. Symptoms include irritation to the mucous membranes and respiratory tract, headaches, and nausea.

Skin:

May cause skin irritation. Symptoms include skin defatting and dermatitis. Product will stain the skin and may persist for some time.

Eye: May cause eye irritation. Symptoms include corneal burns.**Ingestion:**

May cause gastrointestinal irritation, nausea, diarrhoea and vomiting. Symptoms include central nervous system depression.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Acid Blue 9 is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.

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Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

No adverse ecological effects are expected. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 3844-45-9 Acid blue 9

EC50/48 h >100 mg/l (crustacea)

LC50/96 h 132-276 mg/l (fish)

CAS: 111-46-6 2,2'-oxybisethanol

LC50/96 h 75,200 mg/l (fathead minnow)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 07.12.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

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NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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