

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **ReduSol**
 Product Use: Shading paint for greenhouses
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury, 2113

Telephone: +64 9 294 8453
 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 November 2019

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to the Regulation (EC) No. 1272/2008 [CLP] and EPA Hazardous Substances (Classification) Notice 2017.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one (2634-33-5)	<0.05	2634-33-5
Non-hazardous ingredients	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously with water for 15 minutes. Obtain medical attention if pain, blinking or redness persist.

If on Skin: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

If Swallowed: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

If Inhaled: Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:	Not expected to present a significant hazard under anticipated conditions of normal use.
Ingestion:	Abdominal pain. Nausea.
Inhalation:	Material may be an irritant to mucous membranes and respiratory tract.
Skin:	Tingling/irritation of the skin.
Eyes:	May cause eye irritation.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable, Non-combustible material.
Hazards from decomposition products	Fumes. Carbon monoxide. Carbon dioxide.
Suitable Extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.
Precautions for firefighters and special protective clothing	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.
HAZCHEM CODE	None allocated.

Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Evacuate unnecessary personnel. Ventilate area.

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Dispose of according to Local Regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Provide good ventilation in process area to prevent formation of vapour.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Keep only in the original container in a cool, well-ventilated place.
- Keep out of frost.
- Keep container closed when not in use.
- Do not store with incompatible materials such as strong bases and acids.
- Keep away from sources of ignition and direct sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term

Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Chemical goggles or safety glasses.
Hands and Skin	Wear protective gloves.
Respiratory	Not normally required.
General	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. 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 skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White
Odour	Not available
Odour Threshold	Not available
pH	9
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.4 g/cm ³
Solubilities	insoluble in water. In water, the material disperses.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Dynamic Viscosity	7800 mPa.s Brookfield RV, spindle 5, 10 rpm, 20°C
Viscosity, kinematic	5571,42857143 mm ² /s
Particle Size	Not available

Section 10. Stability and Reactivity

Stability of Substance	This material is stable when stored and used as directed.
Hazardous Reactions	No known hazardous reactions.
Conditions to Avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible Materials	Strong acids. Strong bases.
Hazardous Decomposition	Fumes. Carbon monoxide. Carbon dioxide.

Products**Section 11 Toxicological Information****Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	No data available.

Section 13. Disposal Considerations**Disposal Method:**

Triple rinse and dispose according to Local Regulations.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

The manufacturer has stated that this substance is NOT hazardous according to the Regulation (EC) No. 1272/2008 [CLP] and EPA Hazardous Substances (Classification) Notice 2017.

Section 16 Other Information**Glossary**

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.

LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Please contact the New Zealand distributor, if further information is required.

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