



SAFETY DATA SHEET
ID Blue

Section 1. Identification of the material and the supplier

Product: **ID Blue**
Product Use: Dye
Restriction of Use: Refer to Section 15

Supplier: **Agriotech Bioscience (Pty) Ltd. t/a Carabiner**
PO Box 1224
Isando, 1600
South Africa
www.carabiner.co.za

Emergency No: POISON INFORMATION HELPLINE 0861 555 777
POISON CENTRE (UNITAS HOSPITAL) 012 664 1100
TYGERBERG 021 931 6129
RED CROSS 021 689 5227
RAPID SPILL RESPONSE 0800 775 3305
GRIFFON POISON CENTRE 082 446 8946

Date of SDS Preparation: 05 February 2026

Section 2. Hazards Identification

Classification of the substance or mixture
Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Skin sensitisation, Category 1; H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements:
Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Pictograms



Signal Word: **WARNING**

Hazard statement(s)
H317: May cause an allergic skin reaction.

Precautionary statement(s)

General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

Prevention:

P261 - Avoid breathing mist or vapours.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves.

Response:

P333 + P313 - If skin irritation or rash occurs: Get medical advice / attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage:

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Disposal:

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

Supplemental Hazard Statements: none

2.3 Other

Other hazards

No other hazards known.

Section 3. Composition / Information on Hazardous Ingredients

Mixture

Globally Harmonised System, EU (GHS) and according to regulation EC No 1272/2008 [CLP]

Ingredients	Concentration of hazardous ingredient in composition	CAS Number	Classification
2-Methylisothiazolin-3-one	$\geq 0.0025\% - <0.025\%$	55965-84-9	Acute Tox. Cat. 3.; H301 Acute Tox. Cat. 2.; H330 Acute Tox. Cat. 3.; H311 Skin Corr. Cat. 1B.; H314 Eye Dam. Cat. 1.; H318 Skin Sens. Cat. 1A.; H317 Aquatic Acute Cat. 1.; H400 Aquatic Chronic Cat. 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	$\geq 0.0002\% - < 0.0015\%$	55965-84-9	Acute Tox. Cat. 3.; H301 Acute Tox. Cat. 2.; H330 Acute Tox. Cat. 2.; H310 Skin irrit. Cat. 1C.; H314 Eye Dam. Cat.1.; H318 Skin Sens. Cat 1A.; H317 Aquatic Acute Cat. 1.; H400 Aquatic Chronic Cat. 1.; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. First Aid Measures

If medical advice is needed, have product container or label at hand. Provide medical personnel with the container, label or safety data sheet (SDS) when seeking medical attention.

General Information: Remove patient from exposed area. Never give fluids or induce vomiting if the patient is unconscious or is having convulsions. Ingestion of large amounts may cause gastrointestinal irritation. Single exposure to vapours is not likely to be hazardous. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Routes of Exposure:

If in Eyes	Flush eyes immediately with plenty of clean, room temperature water for at least 15 minutes holding eyelids open. Remove contact lenses if present, after 1-2 minutes, then continue rinsing eyes. Seek medical attention.
If on Skin	Remove all contaminated clothing immediately. Rinse affected areas (skin) immediately with plenty of water/shower. Wash contaminated clothing before re-use. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical attention.
If Swallowed	Rinse mouth immediately with clean water and have the patient sip a glass of water if the patient is alert and able. Do not induce vomiting unless instructed to do so by a medical professional. Never induce vomiting or give anything by mouth to a victim who is unconscious or is having convulsions. Seek medical attention.
If Inhaled	Remove patient to fresh air. Keep patient calm. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc.). Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause an allergic skin reaction.

Treatment:

Treat symptomatically. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor, or going for treatment.

Section 5. Fire Fighting Measures

Hazards from products	Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Carbon dioxide, Carbon monoxide and Nitrogen oxides (NO _x).
Suitable Extinguishing media	To extinguish combustible residues of this product use water, fog, carbon dioxide, dry chemical or foam. Dry chemical fire extinguishers, Carbon dioxide fire extinguishers, foam and alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Recommended protective clothing & Precautions for firefighters	Keep people away. Isolate the fire and deny unnecessary entry. Burning liquids may be extinguished by dilution with water. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections. For personal protection see Section 8.

Section 6. Accidental Release Measures**Personal precautions:**

All personnel handling this material must be thoroughly trained on how to handle spills and releases. Wear appropriate safety clothing and eye/face protection. Do not inhale vapour or spray. Avoid contact with spilled product or contaminated surfaces. For personal protection see section 8. Isolate the area. Keep unnecessary and unprotected personnel from entering the area. No smoking in the area.

Environmental precautions:

Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers, or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:**Cleaning procedure:**

Do not eat, drink or smoke during the clean-up process. Clear area of unprotected personnel and ensure adequate ventilation. Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately.

Small spills: Absorb with materials such as sand or other non-reactive absorbent materials. Sweep up. Collect in suitable and properly labelled containers.

Large spills: Contact the emergency contact number for clean-up assistance. Collect in suitable, labelled and sealable containers for later disposals according to regulations. Dispose of absorbed materials according to local regulations. Clean contaminated floors and objects thoroughly with water and a detergent, while observing environmental regulations. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). See Section 13, Disposal Considerations, for additional information.

Waste Disposal: In accordance with local and national regulations. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Dispose of properly. Clean up affected area. Do not flush into surface water or sanitary sewer system.

Container Disposal: Refer to the product label for instructions. Containers and packages must be completely emptied before disposal. Rinse empty container three times with a volume of water equal to a minimum of 30% of that of the container. Add the rinsings to the contents of the spray/mixing tank before destroying the empty container. Destroy the empty container by perforation and flattening and do not use for any other purpose. Store appropriately until it can be taken to a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations for disposal. Empty containers and product should not be burnt. Do not transport if this container is damaged or leaking.
DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Reference to other sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Section 7. Handling and Storage

Precautions for Handling:

KEEP OUT OF SIGHT AND REACH OF CHILDREN and animals. Do not allow access to this product by children, uninformed persons, untrained personnel, unauthorised personnel, or animals under any circumstances. Do not smoke near handling and storage area. Avoid breathing vapour or mist. Keep away from food, feed and eating utensils. Avoid contact with eyes, skin and clothing. Do not swallow. Keep the container closed. Use with adequate ventilation. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. After work, rinse gloves and remove protective equipment. Wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Wash contaminated clothing before re-use and separate from household laundry.

Precautions for Storage:

Store in original container only in a well-ventilated, cool, dry, secure area away from children, foods and animal feeds. Protect from heat, moisture and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations.

Protect from temperatures below: -10 °C. Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C. Changes in the properties of the product may occur if substance/product is stored above the indicated temperature for extended periods of time.

Specific end use(s): Use only according to the label.

Section 8	Exposure Controls / Personal Protection
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Occupational exposure limits:

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Calcium carbonate CAS No.: 471-34-1	Workers	Inhalation	Long-term local effects	6.36 mg/m ³
	Consumers	Inhalation	Long-term local effects	1.06 mg/m ³
	Consumers	Oral	Long-term local effects	6.1 mg/kg bw/day
Propylene Glycol CAS No.: 57-55-6	Workers	Inhalation	Long-term systemic effects	168 mg/m ³
	Remarks: DNEL			
	Workers	Inhalation	Long-term local effects	10 mg/m ³
	Remarks: DNEL			
	Consumers	Inhalation	Long-term systemic effects	50 mg/m ³
	Remarks: DNEL			
	Consumers	Inhalation	Long-term local effects	10 mg/m ³
	Remarks: DNEL			
C.I. Pigment Blue 15:1 CAS No.: 147-14-8	Workers	Inhalation	Acute local effects	10 mg/m ³
	Remarks: DNEL			
	Workers	Inhalation	Long-term local effects	10 mg/m ³
	Remarks: DNEL			
2-Methylisothiazolin- 3-one CAS No.: 2682-20-4	Workers	Inhalation	Long-term local effects	0.021 mg/m ³
	Remarks: DNEL			
	Workers	Inhalation	Long-term local effects	0.043 mg/m ³
	Remarks: DNEL			
	Consumers	Inhalation	Long-term local effects	0.021 mg/m ³
	Remarks: DNEL			
	Consumers	Oral	Acute systemic effects	0.027 mg/kg bw/day
	Remarks: DNEL			
	Consumers	Oral	Acute systemic effects	0.053 mg/kg bw/day
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS No.: 55965-84-9	Workers	Inhalation	Long-term local effects	0.02 mg/m ³
	Remarks: DNEL			
	Workers	Inhalation	Acute local effects	0.04 mg/m ³
	Remarks: DNEL			

	Consumers	Inhalation	Long-term local effects	0.02 mg/m ³
	Remarks: DNEL			
	Consumers	Inhalation	Acute local effects	0.04 mg/m ³
	Remarks: DNEL			
	Consumers	Oral	Long-term systemic effects	0.09 mg/kg bw/day
	Remarks: DNEL			
	Consumers	Oral	Acute systemic effects	0.11 mg/kg bw/day
	Remarks: DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Calcium carbonate CAS No.: 471-34-1	Sewage treatment plant	100 mg/l
Propylene Glycol CAS No.: 57-55-6	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry weight
	Marine sediment	57.2 mg/kg dry weight
	Soil	50 mg/kg dry weight
2-Methylisothiazolin-3-one CAS No.: 2682-20-4	Fresh water	0.0039 mg/l
	Marine water	0.0039 mg/l
	Sewage treatment plant	0.23 mg/l
	Soil	0.047 mg/kg dry weight
	Intermittent use/release	0.0039 mg/l
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS No.: 55965-84-9	Fresh water	3.39 µg/l
	Marine water	3.39 µg/l
	Sewage treatment plant	0.23 mg/l
	Soil	0.01 mg/kg dry weight
	Intermittent use/release	3.39 µg/l
	Fresh water sediment	0.027 mg/kg dry weight
	Marine sediment	0.027 mg/kg dry weight

Engineering Controls / Industrial Hygiene

Comply with occupational safety, environmental, fire and other applicable regulations.

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protection Equipment

Eyes	Safety goggles with side-shields consistent with EN 166 or equivalent. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.
Hands	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Suitable chemical resistant safety gloves

	(EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.
Skin	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.
Respiratory	Wear respiratory protection if ventilation is inadequate and when there is a potential to exceed the exposure limit requirements or guidelines. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be an effective type of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work. Suitable or appropriate respiratory and eye protection should also be worn. Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Blue
Odour	No data available
Odour Threshold	No data available
pH	No data available
Boiling/Melting Point	No data available
Freezing Point	No data available
Flash Point	100 °C closed cup method
Flammability	No data available
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	1.23 g/cm ³ (23°C)
Water Solubility	Insoluble
Partition Coefficient:	No data available
Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	1.1 mPa seconds @23°C
Particle Characteristics	No data available
Surface tension	No data available

Section 10. Stability and Reactivity

Stability of substance	Stable under normal conditions. Avoid exposure to elevated temperatures.
Possibility of hazardous reactions	None known.

Conditions to avoid	Excessive heat, freezing, sunlight, open flames and heat.
Incompatible materials	No data available
Hazardous decomposition products	No data available

Section 11 Toxicological Information

Acute Effects:

Oral	GHS: Not classified
Dermal	GHS: Not classified
Inhalation	GHS: Not classified
Eye	GHS: Not classified
Skin	GHS: Sensitisation Category 1

Chronic Effects:

Carcinogenicity	GHS: Not classified
Reproductive Toxicity	GHS: Not classified
Germ Cell Mutagenicity	GHS: Not classified
Aspiration	GHS: Not classified
STOT/SE	GHS: Not classified
STOT/RE	GHS: Not classified

Section 12. Ecotoxicological Information

Ecological effects information	GHS: Not classified
Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

In accordance with local and national regulations. This product and its container must be disposed of by a waste treatment facility authorised to destroy waste in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Do not dispose into, or allow contact with, municipal sewerage systems or open water bodies. Do not bury.

Contaminated packaging:

Containers and packages must be completely emptied before disposal.

TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter, rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Destroy the triple rinsed container by perforation and flattening and do not use for any other purpose. Store appropriately until it can be disposed of via an approved collector or recycler authorised to recycle or destroy waste in terms of the

National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and the relevant waste management regulations. Empty containers and product should not be burnt. Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

Special precautions during disposal:

Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers.

Empty containers and product should not be burnt.

Section 14	Transport Information
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Rail/road (RID/ADR):

Proper shipping name	Not regulated for transport
UN number	-
Class	-
Packing group	-
Environm. Haz. Mark	-

Sea (IMDG code):

Proper shipping name	Not regulated for transport
UN number	-
Class	-
Packing group	-
Marine pollutant	-

Air (ICAO/IATA):

Proper shipping name	Not regulated for transport
UN number	-
Class	-
Packing group	-
Environm. Haz. Mark	-

Section 15	Regulatory Information
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Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16	Other Information
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Full text of H-Statements referred to under sections 2 and 3.

H301: Toxic if swallowed.

H310: Fatal in contact with skin.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H330: Fatal if inhaled.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

The information herein is given in good faith, but no warranty, express or implied is made.

Issue Date: 05 February 2026

Review Date:

05 February 2031