

Safety Data Sheet according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

1 Identification

Product Name: Crystallic

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Fertiliser.

Details of Manufacturer or Importer:

Nutrifield Pty Ltd
52 Technology Drive
Sunshine West, VIC 3020

Phone Number: +61 (3) 9315 5800

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Not 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)

The product is not classified, according to the Globally Harmonised System (GHS).

Signal Word None

Hazard Statements None

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 77-92-9	Citric acid ⚠ Skin Corrosion/Irritation 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<1%
CAS: 1401-55-4	Tannic acid ⚠ Serious Eye Damage/Irritation 2, H319	<1%
CAS: 479-66-3	Fulvic acid ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332	<1%
CAS: 24634-61-5	Potassium sorbate ⚠ Serious Eye Damage/Irritation 2, H319	<1%
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Skin Sensitisation 1A, H317	<0.05%
CAS: 1310-73-2	Sodium hydroxide ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ STOT SE 3, H335	<0.05%
CAS: 98-92-0	Nicotinamide ⚠ Eye Irrit. 2A, H319	<0.01%
CAS: 58-56-0	Pyridoxine hydrochloride ⚠ Serious Eye Damage/Irritation 1, H318	<0.01%

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

Product Name: Crystallic

(Contd. of page 1)

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

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

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur.

Ingestion: If swallowed, do not induce vomiting. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: No adverse effects expected.

Skin Contact: May cause slight skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

No hazardous decomposition products known.

Product is not 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 measures 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 appropriate protective equipment. 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.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact.

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.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

Product Name: Crystallic

(Contd. of page 2)

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection:

Chemical resistant 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 (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:	Dark brown
Odour:	Earthy, sweet
Odour Threshold:	No information available
pH-Value:	4.28
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Not flammable
Ignition Temperature	No information available
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:	1.05
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Completely soluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No known hazardous reactions.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

Product Name: Crystallic

(Contd. of page 3)

Conditions to Avoid: No further relevant information available.**Incompatible Materials:** No further relevant information available.**Hazardous Decomposition Products:** No hazardous decomposition products known.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:		
CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	1,020 mg/kg (rat)
CAS: 77-92-9 Citric acid		
Oral	LD50	5,040 mg/kg (mouse) 11,700 mg/kg (rat)
	LD50	5,500 mg/kg (rat) (subcutaneous)
	LC50/96 h	440-706 mg/l (fish)
CAS: 98-92-0 Nicotinamide		
Oral	LD50	3,500 mg/kg (rat)
CAS: 24634-61-5 Potassium sorbate		
Oral	LD50	8,000 mg/kg (rat)
CAS: 58-56-0 Pyridoxine hydrochloride		
Oral	LD50	4,000 mg/kg (rat)
CAS: 1401-55-4 Tannic acid		
Oral	LD50	2,260 mg/kg (rat)

Acute Health Effects**Inhalation:** No adverse effects expected.**Skin:** May cause slight skin irritation.**Eye:** May cause eye irritation.**Ingestion:** May cause gastrointestinal irritation.**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:**

Tannic acid 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 information available

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

Product Name: Crystallic

(Contd. of page 4)

Existing Conditions Aggravated by Exposure: No information available

12 Ecological Information

Ecotoxicity:

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic toxicity:**CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one**

EC50/48 h	3.7 mg/l (daphnia)
EC50/72 h	0.37 mg/l (algae)
LC50/96 h	0.169 ppm (rainbow trout)
LC50/48 h	>10 mg/l (daphnia)

CAS: 77-92-9 Citric acid

EC50/48 h	10,000 mg/l (bacterial)
EC50/72 h	120 mg/l (daphnia)
LC50/96 h	440-760 mg/l (golden orfe)

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:

CAS: 77-92-9	Citric acid
CAS: 1401-55-4	Tannic acid
CAS: 24634-61-5	Potassium sorbate
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one
CAS: 1310-73-2	Sodium hydroxide
CAS: 58-56-0	Pyridoxine hydrochloride
CAS: 98-92-0	Nicotinamide

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 15.09.2021

Revision: 15.09.2021

Product Name: Crystalic

(Contd. of page 5)

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:** 10.09.2021**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

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

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

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1A: Skin sensitisation, Hazard Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

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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