

. Identification of Substance & Company

Product

Product name TripleX
ACVM approval P8137
Product codes NA
HSNO approval HSR100

HSNO approval HSR100362
UN number NA
DG class NA
Proper Shipping Name NA

Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses Fungicide for the control of Botyrtis cinerea

Company Details

Company Biostart LTD Biostart Brands PTY Ltd

 Address
 17 Reta Crescent
 L1/109 Jessie St

 Kerepehi
 Armidale

 3671
 NSW 2350

 New Zealand
 Australia

 Telephone
 0800 116 229
 1800 359 555

 Telephone
 0800 116 229
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 Website
 biostart.co.nz
 biostart.com.au

Emergency Telephone Number: 0800 764 766 Australian Emergency Number: 13 11 26

2. Hazard Identification

Approval in New Zealand

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100362): The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

Eye irritation cat. 2 H320 - Causes eye irritation.

STOT* RE cat 2 H373 - May cause damage to organs through prolonged or repeated exposure. Designed for biocidal action

*STOT – system target organ toxicity

SYMBOLS

WARNING



Australian GHS Classification

Eye irritation cat. 2 H320 - Causes eye irritation.

STOT RE cat 2 H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention P103 - Read label before use.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

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

P280 - Wear protective gloves/eye protection.



P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, Response

if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P314 - Get medical advice/attention if you feel unwell.

Storage No storage statements

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Fermentation product	NA	>109CFU/L
Nonviable fermentation products	proprietary	10-30%
Manganese sulphate monohydrate	7785-87-7	1-10%
Ingredients not contributing to GHS 7 classes	Mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service)

Recommended first aid

facilities

Ready access to running water is recommended

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if

experiencing any symptoms.

Eye contact If product gets in eyes, wash material from them with running water for several minutes.

If symptoms persist, seek medical advice.

This product is non-irritating to skin. No further measures should be required. Skin contact

Inhaled Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing,

> dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: Suitable extinguishing

substances:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

alcohol resistant foam.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Protective equipment:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: NA

Accidental Release Measures

Containment There is no current legal requirement for containment of this product. In all cases design

storage to prevent discharge to storm water.

Emergency procedures If a significant spill occurs:Stop leak if safe/necessary; Isolate area. Collect spill – see

below; Transfer to container for disposal. Dispose of according to guidelines below

Clean-up method Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled

containers or drums for disposal. If contamination of crops, sewers or waterways has

occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions No special protective clothing is normally necessary.

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May 2024 Product Name: TripleX

Not listed



7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in

Section 10.

Manganese sulphate monohydrate

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL Exposure Stds Manganese sulphate monohydrate 1mg/m³ Not listed

Exposure Standards - Australia

Ingredient ES-TWA ES-STEL

Australian Exposure Standards

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can 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 processes or increase ventilation.

Personal Protective Equipment

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

Skin If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or

sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Nitrile gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for

1mg/m³

tears or holes before use.

Respiratory Respirator is not required under normal use. Ensure adequate natural ventilation. If

product is being used in confined conditions, the use of a mask or respirator may be

preferred.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance light brown liquid Odour not specified no data pH 3.8-4.0

Freezing / melting point liquid at room temperature

Boiling point as for water (100°C)

Flash point no data
Flammability no data
Upper & lower flammable limits
Vapour pressure no data
Vapour density no data
Specific gravity / density ~1

Solubility completely soluble in water

Partition Coefficient:no dataAuto-ignition temperatureno data





Decomposition temperatureno dataViscosityno dataParticle characteristicsno data

10. Stability & Reactivity

Stability

Stable

Conditions to be avoided

Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups

Strong acids and bases, oxidisers.

Substance Specific

none known

Incompatibility

Hazardous decomposition

Oxides of carbon, sulphur

products

. Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: may cause gastrointestinal irritation.

IF IN EYES: direct contact may cause mild irritation to the eye.

IF ON SKIN: may cause a mild skin irritation with direct contact.

IF INHALED: no effect known.

CHRONIC TOXICITY: repeated or prolonged exposure to manganese sulphate could result in effects to the lungs and central nervous system.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: manganese sulphate: 782mg/kg (rat)

Dermal No evidence of dermal toxicity.

Inhaled No evidence of inhalation toxicity.

The mixture is not considered to be an eye irritant.

Skin

The mixture is not considered to be a skin irritant.

Chronic Sensitisation No

No ingredient present at concentrations > 0.1% is considered a sensitizer.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo ingredient present at concentrations > 0.1% is considered a carcinogen.Reproductive /No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic The mixture is considered to be a suspected target organ toxicant. Repeated or

prolonged exposure to manganese sulphate could result in effects to the lungs and

central nervous system.

None known.

Aggravation of existing conditions

12. Ecological Data

Summary

This mixture is not considered ecotoxic, however it is designed for its fungicidal action. In all cases to not allow to enter drains, sewers and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the estimated EC₅₀ for the mixture is > 100 mg/L.

Bioaccumulation No data
Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal Fungicidal action



13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council, resource consent and

state disposal conditions may apply, including requirements of trade waste consents. Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. In Australia disposal of this product must comply

with the requirements of state and local disposal regulations.

The substance must be treated and therefore rendered non-hazardous before discharge

to the environment.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

IMDG

Disposal method

UN number: NA Proper shipping name: NA Class(es) NA Packing group: NA Precautions: NA Hazchem code: NA

IATA

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

15. Regulatory Information

NZ regulations

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR100362. All ingredients appear on the NZIoC.

Specific Controls

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substances

that have been decanted, transferred or manufactured for own use or have been

supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 10000L is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 10000L is stored. Signage Required if > 10000L is stored.

Location compliance certificate

Flammable zone

Fire extinguisher

Not required.

Not required.

Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.



Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

ACVM approval: P8137

Australian regulations

Standard for the Uniform Scheduling

of Drugs and Poisons (SUSDP) Applicable prohibitions and

notifications/licensing requirements

Agricultural and Veterinary

Chemicals Act

Listing in the Australian Inventory of

Chemical Substances (AICS)

Additional information

Not scheduled

Not listed

Not listed

Manganous sulfate, monohydrate - IMAP - Tier II - Human Health

Not applicable

16. Other Information

Abbreviations

EPA

Approval Code Approval HSR100362, Controls, EPA. www.epa.govt.nz

Australian Inventory of Chemical Substances **AICS**

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16). EC50

Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

Exposure Standard - The airborne concentration of a biological or chemical agent to ES

which a worker may be exposed in a work day. Environmental Protection Authority (New Zealand)

GHS Globally Harmonised System of Classification and Labelling of Chemicals

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

Hazardous Substances and New Organisms (Act and Regulations) **HSNO**

IARC International Agency for Research on Cancer LEL/UEL Lower Explosive Limit/ Upper Explosive Limit

Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). LD_{50}

Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population LC₅₀

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

NICNAS National Industrial Chemicals Notification and Assessment Scheme

New Zealand Inventory of Chemicals **NZIoC**

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RE System Target Organ Toxicity - Repeated Exposure STOT SE System Target Organ Toxicity - Single Exposure

Time Weighted Average - generally referred to WES averaged over typical work day TWA

(usually 8 hours)

UN Number United Nations Number

Workplace Exposure Standard - The airborne concentration of a biological or chemical **WES**

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.





References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

S Workplace Exposure standards for airborne contaminants – Safework Australia.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

Review

DateReason for reviewJuly 2019Not applicable – new SDSJanuary 2020Review of approval.

April 2023 Update, new address and logo, HSNO to GHS

May 2024 New address

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

