

Safety Data Sheet

according to WHS Regulations

Printing date 12.11.2019

Revision: 12.11.2019

1 Identification

Product Name: EZYFLOW LOVEBUD**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Trace element supplement**Details of Manufacturer or Importer:**

Nutrien Ag Solutions Limited
 Level 5, Building A, 26 Talavera Road
 Macquarie Park NSW 2113

Phone Number: 02 9889 5400**Emergency telephone number:** 1800 033 111

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)



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Signal Word Warning**Hazard Statements**

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

P391 Collect spillage.

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: 471-34-1	Calcium carbonate		20%
CAS: 598-62-9	Manganese carbonate		5%
CAS: 1314-13-2	Zinc oxide	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1%
CAS: 1317-38-0	Copper oxide	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.5%
CAS: 7440-42-8	Boron	Acute Toxicity (Oral) 2, H300	0.2%

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.

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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, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause mild respiratory irritation.

Skin Contact: May cause mild skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: May cause mild 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.

This product is not flammable.

Containers close to fire should be removed only if safe to do so.

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.

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. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from extreme temperatures and direct sunlight. Protect from freezing. Keep away from strong acids and strong oxidising agents.

Recommended storage temperature: 5 - 30 °C

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8 Exposure Controls and Personal Protection

Exposure Standards:	
CAS: 471-34-1 Calcium carbonate	
WES	TWA: 10 mg/m ³
CAS: 598-62-9 Manganese carbonate	
WES	TWA: 1 mg/m ³ as Mn
CAS: 1314-13-2 Zinc oxide	
WES	STEL: 10** mg/m ³ TWA: 10* 5** mg/m ³ *dust **fume

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

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

Skin Protection:

PVC or nitrile 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 suspension
Colour:	Pink
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	8 - 9.5 (10% solution)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	~100 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Density at 20 °C:	1.5 g/cm ³
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available

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Viscosity: No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Extreme temperatures and direct sunlight.**Incompatible Materials:** Strong acids and strong oxidising agents.**Hazardous Decomposition Products:** No hazardous decomposition products known.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 471-34-1 Calcium carbonate**

Oral	LD ₅₀	6,450 mg/kg (rat)
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CAS: 1314-13-2 Zinc oxide

Oral	LD ₅₀	>5,000 mg/kg (rat)
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Inhalation	LC ₅₀ /4 h	>5.7 mg/l (rat)
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CAS: 1317-38-0 Copper oxide

Oral	LD ₅₀	>2,500 mg/kg (rat)
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Dermal	LD ₅₀	>2,000 mg/kg (rat)
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CAS: 7440-42-8 Boron

Oral	LD ₅₀	650 mg/kg (rat)
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Acute Health Effects**Inhalation:** May cause mild respiratory irritation.**Skin:** May cause mild skin irritation.**Eye:** May cause mild eye irritation.**Ingestion:** May cause mild 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:** This product does NOT contain any IARC listed chemicals.**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:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Chronic exposure to zinc oxide may cause severe dermatitis known as oxide pox.

Chronic exposure to manganese may cause central nervous system damage leading to weakness in the legs, spastic gait, tendency to fall while walking, mask-like appearance of the face, emotional disturbances and uncontrollable laughter.

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Existing Conditions Aggravated by Exposure: No information available**Additional toxicological information:** No information available

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very Toxic to aquatic life with long lasting effects.

CAS: 471-34-1 Calcium carbonateLC₅₀/96 h >56,000 mg/l (mosquito fish)**CAS: 1314-13-2 Zinc oxide**EC₅₀/48 h 6.9-16.2 mg/l (daphnia)EC₅₀/72 h 0.136 mg/l (selenastrum capricornutum)LC₅₀/96 h 2,246 mg/l (fathead minnow)

0.33-0.78 mg/l (rainbow trout)

CAS: 1317-38-0 Copper oxideEC₅₀/48 h 0.106 mg/l (daphnia)LC₅₀/96 h 0.193 mg/l (fathead minnow)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**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**ADG****IMDG, IATA**

Not regulated

UN3082

Proper Shipping Name**ADG****IMDG**

Not regulated

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Zinc oxide, copper oxide), MARINE
POLLUTANT**IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Zinc oxide, copper oxide)**Dangerous Goods Class****ADG Class:****IMDG Class:**

Not regulated

9 Miscellaneous dangerous substances and articles.

Packing Group:**ADG**

Not regulated

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IMDG, IATA	III
Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-A,S-F
Hazchem Code:	•3Z
Special Provisions:	274, 331, 335, 375, AU01
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	PP1
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 7732-18-5	Water
CAS: 471-34-1	Calcium carbonate
CAS: 598-62-9	Manganese carbonate
CAS: 13717-00-5	Magnesium carbonate
CAS: 1314-13-2	Zinc oxide
CAS: 1317-38-0	Copper oxide
CAS: 7440-42-8	Boron

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 12.11.2019

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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 (Oral2): Acute toxicity – Category 2

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

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic. 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 - February 2016"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions Limited makes no representation of the accuracy or

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