# Safety Data Sheet

according to WHS Regulations

Printing date 07.05.2019

Revision: 07.05.2019

#### 1 Identification

#### Product Name: EZYFLOW ZINCMAN

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:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

health hazard

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.

environment

Aquatic Acute 1 Aquatic Chronic 1 H400 Very toxic to aquatic life.H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

#### Signal Word Danger

#### **Hazard Statements**

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary Statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

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P280	Wear eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P314	Get medical advice/attention if you feel unwell.
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.

CAS: 7785-87-7	Manganese sulphate	
	STOT RE 1, H372; 🤣 Serious Eye Damage/Irritation 1, H318; 쉋 Aquatic Chronic 2, H411; 🏠 Acute Toxicity (Oral) 4, H302; Aquatic Acute 2, H401	
CAS: 1314-13-2	Zinc oxide ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10 - 30%

#### 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.

#### 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.

#### Eve 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 respiratory irritation. Skin Contact: May cause mild skin irritation. Eye Contact: Causes serious eye damage. 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.

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.

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### **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 frost. Keep away from strong oxidising agents and strong acids.

Store at 5 - 30°C.

# 8 Exposure Controls and Personal Protection

# Exposure Standards:

CAS:	CAS: 7785-87-7 Manganese sulphate		
NES	TWA: 1 mg/m³ as Mn		
WES	TWA: 1 mg/m³ as Mn		
CAS: 1314-13-2 Zinc oxide			
NES	STEL: 10** mg/m³ TWA: 10* 5** mg/m³ *dust **fume		
WES	STEL: 10** mg/m³ TWA: 10* 5** mg/m³ *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

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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:	Beige
Odour:	Slight
Odour Threshold:	No information available
pH-Value:	6.5 - 7.5 (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:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density at 20 °C:	1.82 g/cm <sup>3</sup>
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
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: No further relevant information available.

Incompatible Materials: Strong oxidising agents and strong acids.

Hazardous Decomposition Products: No hazardous decomposition products known.

# 11 Toxicological Information

#### Toxicity:

LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:

CAS: 1314	4-13-2 Zir	nc oxide
Oral	$LD_{50}$	>5,000 mg/kg (rat)
Inhalation	LC₅₀/4 h	>5.7 mg/l (rat)

#### Acute Health Effects

Inhalation: May cause respiratory irritation. Skin: May cause mild skin irritation. Eye: Causes serious eye damage.

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**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Causes serious eye damage.

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.

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: Prolonged skin contact may cause severe dermatitis known as 'oxide pox'.

Existing Conditions Aggravated by Exposure: No information available

#### Additional toxicological information:

Manganese poisoning sleepiness, weakness in the legs, a mask0like appearance of the face, emotional disturbances and a spastic gait.

### 12 Ecological Information

#### Ecotoxicity:

#### Aquatic toxicity:

Very Toxic to aquatic life with long lasting effects.

#### CAS: 1314-13-2 Zinc oxide

EC<sub>50</sub>/48 h 6.9-16.2 mg/l (daphnia)

EC<sub>50</sub>/72 h 0.136 mg/l (selenastrum capricornutum)

- LC<sub>50</sub>/96 h 2,246 mg/l (fathead minnow)
  - 0.33-0.78 mg/l (rainbow trout)

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

UN3082

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Product Name: EZYFLOW ZINCMAN

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Proper Shipping Name	
ADG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide, Manganese sulphate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide, Manganese sulphate), MARINE POLLUTANT
Dangerous Goods Class ADG Class:	9 Miscellaneous dangerous substances and articles.
Packing Group:	
ADG, 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:	Τ4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

# 15 Regulatory Information

CAS: 7785-87-7 Manganese sulphate

CAS: 1314-13-2 Zinc oxide

CAS: 7732-18-5 Water

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

www.msds.com.au

#### 16 Other Information

#### Date of Preparation or Last Revision: 07.05.2019

#### Prepared by: MSDS.COM.AU Pty Ltd

#### 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)

 $LC_{50}$ : Lethal concentration, 50 percent

LD₅₀: Lethal dose, 50 percent

LARC: 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

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

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STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1 Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

#### 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"

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