

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Revision date: 10/30/2023 Supersedes: 8/1/2022 Version: 3.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture Product name FIXA ZINC UN-No. (ADR) 3082

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fertilizer

1.4. Supplier's details

Supplier

AGRONUTRITION SAS

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1.5. Emergency phone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
New Zealand	New Zealand National Poisons Centre		+0800 764 766	

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5 H303 Calculation method Serious eye damage/eye irritation, Category 1 H318 Calculation method Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Calculation method Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410 Calculation method

Full text of H-statements: see section 16

Adverse physicochemical, human health and : May be harmful if swallowed, Causes serious eye damage, Very toxic to aquatic life with long environmental effects

lasting effects.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





Signal word (GHS UN)

Hazardous ingredients zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)

Hazard statements (GHS UN) : H303 - May be harmful if swallowed H318 - Causes serious eye damage

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS UN) : P102 - Keep out of reach of children.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

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P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P316 - Get emergency medical help immediately.

P391 - Collect spillage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Repeated or prolonged skin contact can result in sensitisation in susceptible individuals

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)	CAS-No.: 7446-19-7	25 – 50	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	< 0,01	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Move the affected person to the fresh air. If experiencing respiratory symptoms: Call a

poison center or a doctor.

First-aid measures after skin contact : Wash off with plenty of water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 20-30 minutes. Consult an

eye specialist.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Cough. Respiratory tract irritation.

Symptoms/effects after skin contact : Irritation. Rednesses.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Abdominal pain, nausea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : In case of fire: Water spray. Water mist. Foam. Powders. Carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable Explosion hazard : Not explosive.

Hazardous decomposition products in case of fire : Sulphur dioxide. Metallic oxides. Zinc.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. In case of important spillage: Evacuate unnecessary

personnel. Only qualified personnel equipped with suitable protective equipment may

intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Contain the spilled material by bunding. Do not allow to enter drains or water courses

6.3. Methods and materials for containment and cleaning up

For containment : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite.

Methods for cleaning up : Clean preferably with a detergent - Avoid the use of solvents.

Other information : Dispose of contaminated materials in accordance with current regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not expose particularly sensitive persons at risk. Wear

personal protective equipment. Observe the label precautions.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a dry, cool and well-ventilated place. Keep out of the

reach of children. Protect from heat and direct sunlight. Keep out of frost. Keep away from

food, drink and animal feedingstuffs.

Packaging materials : Store always product in container of same material as original container.

Storage temperature : 0 – 35 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure that there is a suitable ventilation system. Environmental exposure controls : Do not allow into drains or water courses.

Other information : Do not eat, drink or smoke when using this product.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Protective clothing.

Respiratory protection

Hand protection : Protective gloves. ISO 374-1. Recommended materials : Latex. Nitrile rubber. PVC gloves.

Butyl rubber

Eye protection : Wear security glasses which protect from splashes. (EN 166). Emergency eye wash

fountains should be available in the immediate vicinity of any potential exposure

Skin and body protection : Wear suitable protective clothing. Combination of fertilisers and fertilising products. Boots

: In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

Appearance : Soluble concentrate (SL)

Colour dark brown Odour Not available Odour threshold Not available Melting point Not applicable Freezing point Not available > 90 °C (ISO 3405) Boiling point Flammability Not flammable Not available Lower explosion limit Upper explosion limit Not available

Flash point : > 93 °C (Standard ISO 3679)

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : 5.5 +/- 0,6

pH solution : 6.6 (+/- 0,6) (1% in water)

Viscosity, kinematic (calculated value) (40 °C) Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density Not available Relative density : 1.3 +/- 1,5% : Not available Relative vapour density at 20°C Solubility Soluble in water. Particle size Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

Other properties : Efflux time : 15-30 s.

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

To our knowledge, the product does not present any particular risk, under normal conditions of use.

10.4. Conditions to avoid

Heat. Freezing.

10.5. Incompatible materials

Respiratory or skin sensitisation

Germ cell mutagenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Carcinogenicity

Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)	
FIXA ZINC		
ATE UN (oral)	2175.891 mg/kg bodyweight	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)		
ATE UN (oral)	100 mg/kg bodyweight	
ATE UN (dermal)	50 mg/kg bodyweight	
ATE UN (gases)	100 ppmv/4h	
ATE UN (vapours)	0.5 mg/l/4h	
ATE UN (dust,mist)	0.05 mg/l/4h	
zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate) (7446-19-7)		
LD50 oral rat	574 (574 – 2949) mg/kg	
LD50 oral	≈ 926 mg/kg (mouse male) (OECD 401 method)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)	
ATE UN (oral)	574 mg/kg bodyweight	
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: 5.5 +/- 0,6	
Serious eye damage/irritation :	Causes serious eye damage. pH: 5.5 +/- 0,6	

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: Not classified (Based on available data, the classification criteria are not met)

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Not classified (Based on available data, the classification criteria are not met)
 Not classified (Based on available data, the classification criteria are not met)

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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

: Very toxic to aquatic life.

Classification procedure (Hazardous to the aquatic

environment, short-term (acute))

: Calculation method

Hazardous to the aquatic environment, long-term

(chronic)

: Very toxic to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic : Calculation method

environment, long-term (chronic))

zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate) (7446-19-7)		
LC50 - Fish [1]	0.78 mg/l (96 Hours) (Pimephales promelas)	
EC50 - Crustacea [1]	0.259 mg/l (48 Hours) (Daphnia magna) (OECD 202 method)	
NOEC chronic fish	0.057 mg/l (116 days) (Salmo trutta) (OECD 210 method)	

12.2. Persistence and degradability

Persistence and degradability Not rapidly degradable

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

Persistence and degradability Not rapidly degradable

zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate) (7446-19-7)

Persistence and degradability Not rapidly degradable

12.3. Bioaccumulative potential

FIXA ZINC

Bioaccumulative potential No additional information available

12.4. Mobility in soil

FIXA ZINC

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Recycle or dispose of in compliance with current legislation. Dispose of at a licensed waste

collection centre. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Empty the packaging completely prior to disposal. Do not remove label until container is

thoroughly cleaned. Dispose of at an licensed site.

SECTION 14: Transport information

In accordance with RTMD ONU / IMDG / IATA

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UN RTDG	IMDG	IATA	
14.1. UN number			
3082	3082	3082	
14.2. UN Proper Shipping Name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate))	Environmentally hazardous substance, liquid, n.o.s. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate))	
Transport document description			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (zinc sulphate (hydrous) (mono-, hexa-and hepta hydrate)), 9,	
14.3. Transport hazard class(es)			
9	9	9	
**************************************	**************************************		
14.4. Packing group			
Ш	III	III	
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	
No supplementary information available			

14.6. Special precautions for user

UN RTDG

Special provisions (UN RTDG) : 274, 331, 335, 375

Limited quantities (UN RTDG) : 5L Excepted quantities (UN RTDG) : E1

Packing instruction (UN RTDG) : P001, IBC03, LP01

Special packing provisions (UN RTDG) : PP1
Portable tank and bulk container special : T4

instructions (UN RTDG)

Portable tank and bulk container special provisions : TP1, TP29

(UN RTDG)

IMDG

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE

EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

Stowage category (IMDG) : A

IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG

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PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Revision date : 10/30/2023 Supersedes : 8/1/2022

Indication of changes:

This sheet has been revised completely (changes were not marked).

Abbreviations and acronyms : ADR - European Agreement concerning the International Carriage of Dangerous Goods by

Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

EC50 - Median effective concentration LC50 - Median lethal concentration ED - Endocrine disrupting properties

EN - European Standard SDS - Safety Data Sheet

IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods

LD50 - Median lethal dose

CAS-No. - Chemical Abstract Service number PBT - Persistent Bioaccumulative Toxic

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

OEL - Occupational Exposure Limit

vPvB - Very Persistent and Very Bioaccumulative

Full text of H-statements:		
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Skin Sens. 1A	Skin sensitisation, category 1A	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H303	May be harmful if swallowed	
H310	Fatal in contact with skin	

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Full text of H-statements:		
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	

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.