

# SAFETY DATA SHEET

## Zinatra

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



SDS # : NP-0248-A  
Revision Date: 2017-04-03  
Format: EU  
Version 1

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

Product Code NP-0248-A  
Product name Zinatra

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture  
Restrictions on use Use as recommended by the label

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Headland Agrochemincals  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom

##### Supplier

Headland Agrochemincals  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom

For further information, please contact:

##### **Contact Point**

Tel: +44(0)1244 537370  
Fax: +44(0)1244 532097

##### **E-mail address**

flintshire.enquiry@fmc.com

#### 1.4. Emergency telephone number

Emergency telephone Tel: +44(0)1244 537370 (Office hours only)

### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.	

**2.2. Label elements****Hazard pictograms**

**Signal Word**  
WARNING

**Hazard Statements**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH208 - Contains ( 1,2-Benzisothiazolin-3-one ). May produce an allergic reaction

**Precautionary Statements**

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/container to hazardous or special waste collection point.

**2.3. Other hazards**

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Chemical Name	EC-No	CAS-No	Weight percent	GHS Classification	REACH registration number
Zinc oxide	215-222-5	1314-13-2	40-60	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119463881-32-XXXX
ethane-1,2-diol	203-473-3	107-21-1	1-5	Acute Tox. 4 (H302)	01-2119456816-28-XXXX
1,2 benzisothiazolin-3-one	Present	2634-33-5	<0.1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)	No data available

## Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures****Eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

**Skin Contact**

Wash off immediately with soap and plenty of water.

**Inhalation**

Remove person from exposure ensuring one's own safety while doing so.

**Ingestion**

Clean mouth with water.

**4.2. Most important symptoms and effects, both acute and delayed****Most important symptoms and effects, both acute and delayed**

Skin contact: May see mild irritation at the site of contact.  
Eye contact: Possible irritation and redness.  
Ingestion: Possible irritation of the throat.  
Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.  
Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

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

Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Using spraywater to cool the containers.

**Unsuitable extinguishing media**

No information available

**5.2. Special hazards arising from the substance or mixture**

Toxic fumes may be released in fire situations.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

**6.3. Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Surface water drains within close vicinity of the spill should be covered. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by appropriate method. Refer to section 13 of SDS for suitable method of disposal.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling****Handling**

Ensure adequate ventilation.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Protect from frost, heat and sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Store rooms or warehouses should be made of non-combustible materials with impermeable floors. Store above 5°C.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

Not Applicable.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Zinc oxide 1314-13-2	-	-	TWA 5 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	-
ethane-1,2-diol 107-21-1	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> S*	STEL 40 ppm STEL 104 mg/m <sup>3</sup> STEL 30 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup> Skin	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> P*	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> S*	-
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Zinc oxide 1314-13-2	-	TWA 2 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	-	TWA 2 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 4 mg/m <sup>3</sup>
ethane-1,2-diol 107-21-1	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Pelle*	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Ceiling 100 mg/m <sup>3</sup> C(A4) P*	Huid* STEL 104 mg/m <sup>3</sup> TWA 52 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	TWA 20 ppm TWA 50 mg/m <sup>3</sup> STEL 40 ppm STEL 100 mg/m <sup>3</sup> iho*	TWA 10 ppm TWA 26 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> H*
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Zinc oxide 1314-13-2	TWA 5 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup> STEL 3 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 5 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup> STEL 10 mg/m <sup>3</sup>
ethane-1,2-diol 107-21-1	H* STEL 20 ppm STEL 52 mg/m <sup>3</sup> TWA 10 ppm TWA 26 mg/m <sup>3</sup>	SS-C** H* TWA 10 ppm TWA 26 mg/m <sup>3</sup> STEL 20 ppm STEL 52 mg/m <sup>3</sup>	TWA 15 mg/m <sup>3</sup> STEL 50 mg/m <sup>3</sup>	TWA 20 mg/m <sup>3</sup> TWA 52 ppm TWA 52 mg/m <sup>3</sup> S* STEL 104 mg/m <sup>3</sup> STEL 40 ppm	TWA 10 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Skin

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls****Engineering measures**

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal protective equipment**

<b>Eye/face protection</b>	Safety Glasses. Eye wash bottle with pure water.
<b>Hand protection</b>	Protective gloves. Nitrile rubber. Rubber gloves.
<b>Skin and body protection</b>	Wear impervious gloves and/or clothing if needed to prevent contact with the material.
<b>Respiratory Protection</b>	No special protective equipment required.
<b>Environmental exposure controls</b>	Refer to specific Member State legislation for requirements under Community environmental legislation.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Suspension
<b>Appearance</b>	Liquid suspension, Opaque
<b>Odour</b>	Barely perceptible
<b>Colour</b>	White
<b>Odour threshold</b>	No information available
<b>pH</b>	8.5 - 10.5
<b>Melting point/freezing point</b>	No information available
<b>Boiling point/boiling range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Specific gravity</b>	1.77 - 1.82
<b>Water solubility</b>	Dispersible in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidising properties</b>	No information available

**9.2. Other information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk Density</b>	No information available
<b>K<sub>st</sub></b>	No information available

**Section 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Stable under recommended storage conditions

**10.2. Chemical stability**

Stable under normal conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** No information available.**Sensitivity to Static Discharge** No information available.**10.3. Possibility of hazardous reactions****Hazardous polymerisation**

Hazardous polymerisation does not occur.

**Hazardous reactions**

None under normal processing. Decomposition can occur on exposure to heat or moisture.

**10.4. Conditions to avoid**

Heat. Extremes of temperature and direct sunlight. Do not freeze.

**10.5. Incompatible materials**

Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

May emit toxic fumes under fire conditions.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	Inhalation LC50
Zinc oxide	> 5000 mg/kg ( Rat )		
ethane-1,2-diol	= 4700 mg/kg ( Rat )	= 10600 mg/kg ( Rat ) = 9530 µL/kg ( Rabbit )	
1,2 benzisothiazolin-3-one	= 1020 mg/kg ( Rat )		

**Skin corrosion/irritation** Mild Irritant.  
**Serious eye damage/eye irritation** Minimally irritating.  
**Sensitisation** No information available.  
**Mutagenicity** No information available.  
**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

There is no data available for this product.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
ethane-1,2-diol	96 h EC50: 6500 - 13000 mg/L	96 h LC50: 14 - 18 mL/L	48 h EC50: = 46300 mg/L (Daphnia)

	(Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss) static 96 h LC50: 40000 - 60000 mg/L (Pimephales promelas) static 96 h LC50: = 16000 mg/L (Poecilia reticulata) static 96 h LC50: = 27540 mg/L (Lepomis macrochirus) static 96 h LC50: = 40761 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 41000 mg/L (Oncorhynchus mykiss)	magna)
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**12.2. Persistence and degradability**

No data is available on the product itself.

**12.3. Bioaccumulative potential**

No information available.

Chemical Name	Partition coefficient
ethane-1,2-diol	-1.93
1,2 benzisothiazolin-3-one	1.3

**12.4. Mobility in soil****Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6. Other adverse effects**

Toxic to aquatic organisms

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from residues / unused products**

Transfer to a suitable container and arrange for collection by specialised disposal company. Alternatively, the product can be incinerated, in accordance with local regulations. The diluted product and washings should be sent to a water treatment facility. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

**Contaminated Packaging**

Dispose of in accordance with local regulations.

**EWC Waste Disposal No.**

02 01 08

## Section 14: TRANSPORT INFORMATION

**IMDG/IMO****14.1 UN/ID no**

UN3082

**14.2 Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)

**14.3 Hazard class**

9

**14.4 Packing group**

III

**Description**

UN3082, Environmentally hazardous substance, liquid, n.o.s., (zinc oxide), 9, III, Marine pollutant

**14.5 Marine pollutant**

Applicable

**Environmental hazard** Yes  
**14.6 Special Provisions** No special precautions.  
 Tunnel code = E  
 Transport category = 3

**EmS** F-A, S-F  
**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** The product is not transported in bulk tankers.

**RID**

**14.1 UN/ID no** Not regulated  
**14.2 Proper shipping name** Not regulated  
**14.3 Hazard class** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Yes  
**14.6 Special Provisions** None

**ADR/RID**

**14.1 UN/ID no** Not regulated  
**14.2 Proper shipping name** Not regulated  
**14.3 Hazard class** Not regulated  
**14.4 Packing group** Not regulated  
**14.5 Environmental hazard** Yes  
**14.6 Special Provisions** None

**ICAO/IATA**

**14.1 UN/ID no** UN3082  
**14.2 Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (zinc oxide)  
**14.3 Hazard class** 9  
**14.4 Packing group** III  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s., (zinc oxide), 9, III, Marine pollutant  
**14.5 Environmental hazard** Yes  
**14.6 Special Provisions** No special precautions.  
 Tunnel code = E  
 Transport category = 3

<b>Section 15: REGULATORY INFORMATION</b>
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)  
 This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

Chemical Name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Zinc oxide 1314-13-2	X	X	X	X	X	X	X	X
ethane-1,2-diol 107-21-1	X	X	X	X	X	X	X	X
1,2 benzisothiazolin-3-one 2634-33-5	X	X	X	X	X	X	X	X

## 15.2. Chemical safety assessment

A Chemical Safety Assessment has not yet been completed for this substance

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of R-phrases referred to under sections 2 and 3

No information available

#### Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

EUH208 - May produce an allergic reaction

#### Legend

<b>ADR:</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>CAS:</b>	CAS (Chemical Abstracts Service)
<b>Ceiling:</b>	Maximum limit value:
<b>DNEL:</b>	Derived No Effect Level (DNEL)
<b>EINECS:</b>	EINECS (European Inventory of Existing Chemical Substances)
<b>GHS:</b>	Globally Harmonised System (GHS)
<b>IATA:</b>	International Air Transport Association (IATA)
<b>ICAO:</b>	International Civil Aviation Organization
<b>IMDG:</b>	International Maritime Dangerous Goods (IMDG)
<b>LC50:</b>	LC50 (lethal concentration)
<b>LD50:</b>	LD50 (lethal dose)
<b>PBT:</b>	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
<b>RID:</b>	Regulations Concerning the International Transport of Dangerous Goods by Rail
<b>STEL:</b>	Short term exposure limit
<b>SVHC: Substances of Very High Concern for Authorisation:</b>	SVHC: Substances of Very High Concern for Authorisation:

<b>TWA:</b>	time weighted average
<b>vPvB:</b>	very Persistent and very Bioaccumulative

**Revision Date:** 2017-04-03

**Reason for revision:** Initial Release.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

#### Prepared By

Headland Agrochemicals

