

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **ZINC AMINOMIN**

**Other name(s):** Zinc Aminomin 20%; ZN Aminomin 20%; Zinc 20% Aminomin

**Recommended Use of the Chemical and Restrictions on Use** Mineral supplement.

**Supplier:** Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia  
**Street Address:** 166 Totara Street  
Mt Maunganui South  
New Zealand

**Telephone Number:** +64 9 309 2528  
**Facsimile:** +64 9 0508 366 364  
**Emergency Telephone:** **0 800 734 607 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

**Subclasses:**  
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.

Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017  
Approval Number: HSR002578



**Hazard Statement(s):**  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:**  
P273 Avoid release to the environment.

**Response:**  
P391 Collect spillage.

**Storage:**  
No storage statements.

# Safety Data Sheet



## Disposal:

P501 In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. This may also include any method of disposal that must be avoided.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Zinc oxide	1314-13-2	<10%	H410
Ingredients determined not to be hazardous	-	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

### Skin Contact:

If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs seek medical advice.

### Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

### Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

### Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

### Hazchem or Emergency Action Code: 2Z

### Specific hazards arising from the chemical:

Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon and oxides of zinc.

### Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

# Safety Data Sheet



## Emergency procedures/Environmental precautions:

Shut off all possible sources of ignition. If contamination of sewers or waterways has occurred advise local emergency services.

## Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid skin and eye contact and breathing in dust.

Avoid handling which leads to dust formation. May form flammable dust clouds in air. For precautions necessary refer to Safety Data Sheet "Dust Explosion Hazards". Take precautionary measures against static discharges.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Workplace Exposure Standards:** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for particulates:

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m<sup>3</sup> (inhalable dust) or 3 mg/m<sup>3</sup> (respirable dust)

Zinc oxide dust: WES-TWA 10 mg/m<sup>3</sup>

Zinc oxide fume: WES-TWA 3 mg/m<sup>3</sup>; WES-STEL 10 mg/m<sup>3</sup> Respirable fraction

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - STEL (Workplace Exposure Standard - Short Term Exposure Limits) - The 15 minute average exposure standard. Applies to any 15 minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both short-term and eight-hour, time-weighted average exposures should be determined.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

# Safety Data Sheet



## Appropriate engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Avoid generating and breathing in dusts. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

## Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.



Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Powder
<b>Colour:</b>	Off-white
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	Not available
<b>Specific Gravity:</b>	Not available
<b>Relative Vapour Density (air=1):</b>	Not available
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not available
<b>Flammability Limits (%):</b>	Not available
<b>Autoignition Temperature (°C):</b>	Not available
<b>Solubility in water (g/L):</b>	Not available
<b>Melting Point/Range (°C):</b>	Not available
<b>Boiling Point/Range (°C):</b>	Not available
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Partition Coefficient:</b>	Not available

## 10. STABILITY AND REACTIVITY

# Safety Data Sheet



<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation will not occur.
<b>Conditions to avoid:</b>	Avoid exposure to heat, sources of ignition, and open flame. Avoid dust generation.
<b>Incompatible materials:</b>	None known.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of zinc.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

<b>Ingestion:</b>	No adverse effects expected, however, large amounts may cause nausea and vomiting.
<b>Eye contact:</b>	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.
<b>Skin contact:</b>	Repeated or prolonged skin contact may lead to irritation.
<b>Inhalation:</b>	Breathing in dust may result in respiratory irritation.

**Acute toxicity:** No LD50 data available for the product. However, for constituent(s)  
ZINC OXIDE: (1)  
Oral LD50 (mice): 7,950 mg/kg

<b>Skin corrosion/irritation:</b>	May cause mechanical irritation.
<b>Serious eye damage/irritation:</b>	May cause mechanical irritation.
<b>Respiratory or skin sensitisation:</b>	No information available.

**Chronic effects:** No information available for the product.

<b>Mutagenicity:</b>	No information available.
<b>Carcinogenicity:</b>	No information available.
<b>Reproductive toxicity:</b>	No information available.
<b>Specific Target Organ Toxicity (STOT) - single exposure:</b>	No information available.
<b>Specific Target Organ Toxicity (STOT) - repeated exposure:</b>	No information available.
<b>Aspiration hazard:</b>	No information available.

Finely divided zinc product dust can potentially cause metal fume fever. Symptoms of metal fume fever may include a flu-like condition involving headache, chills, fever, sweats, nausea, vomiting, cough, muscle aches and pains, difficulty breathing and pulmonary oedema.

# Safety Data Sheet



## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Avoid contaminating waterways.
<b>Persistence/degradability:</b>	Not readily biodegradable. (2)
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility in soil:</b>	No information available.
<b>Aquatic toxicity:</b>	Toxic to aquatic organisms. May cause long lasting harmful effects to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.



<b>UN No:</b>	3077
<b>Transport Hazard Class:</b>	9 Miscellaneous Dangerous Goods
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)
<b>Hazchem or Emergency Action Code:</b>	2Z

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

<b>UN No:</b>	3077
<b>Transport Hazard Class:</b>	9 Miscellaneous Dangerous Goods
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)
<b>IMDG EMS Fire:</b>	F-A
<b>IMDG EMS Spill:</b>	S-F
<b>Marine Pollutant</b>	Yes

# Safety Data Sheet



## **Air Transport**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 3077  
**Transport Hazard Class:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name or Technical Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE)

## **15. REGULATORY INFORMATION**

### **Classification:**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017 and the Hazardous Substances (Classification) Notice 2017.

### **Subclasses:**

Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.

Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2017  
Approval Number: HSR002578

### **Hazard Statement(s):**

H411 Toxic to aquatic life with long lasting effects.

## **16. OTHER INFORMATION**

- (1) 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2019.  
(2) Supplier Safety Data Sheet; 08/ 2019.

This safety data sheet has been prepared by Ixom Operations Pty Ltd (Toxicology & SDS Services).

### **Reason(s) for Issue:**

Revised Primary SDS  
Change to Product Name  
Addition/Change of synonymous name(s)  
Change in Hazardous Chemical Classification  
Change in Formulation  
Update in Ecological Information

# Safety Data Sheet



This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.