



# SAFETY DATA SHEET

## Zinc Acetate

Ref. 40069/3.0/REG\_EU/EN

Revision Date: 12.05.2016

Previous date: 05.03.2013

Print Date:12.05.2016

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product information

**Commercial Product Name**

Zinc Acetate

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

**Use of the Substance/Mixture**

Mineral feed supplement in animal feed.

Pharmaceuticals

Catalyst

Stabilizer

Additive

Intermediate.

Antioxidant

**Recommended restrictions on use**

Reserved for industrial and professional use.

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

Niacet b.v.

P.O. Box 60

4000 AB Tiel

NETHERLANDS

Telephone +31 344-615224, Telefax. +31 344-611475

Tiel@Niacet.nl

Niacet Corporation

400 47<sup>th</sup> Street

Niagara Falls, NY

14304 U.S.A.

Telephone +1 716-285-1474 Telefax +1 716-285-1497

niacetcsr@niacet.com

#### 1.4 Emergency telephone number

For Niacet b.v.Tiel, The Netherlands products: +31 344-615224

For Niacet Corporation, Niagara Falls, U.S.A. products:

Chemtrec +1 (800) 424 9300, +1 (703) 527 3887

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EU) 1272/2008(CLP)**

Acute toxicity; Category 4; Harmful if swallowed.

Chronic aquatic toxicity; Category 2; Toxic to aquatic life with long lasting effects.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Harmful; Harmful if swallowed.

Dangerous for the environment; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**



**Hazard pictograms** :

**Signal word** :

Warning

**Hazard statements** :

H302  
H411

Harmful if swallowed.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements** :

**Prevention:**

P273  
P270

Avoid release to the environment.  
Do not eat, drink or smoke when using this product.

P264

Wash hands thoroughly after handling.

**Response:**

P330  
P301 + P312

Rinse mouth.  
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
Collect spillage.

P391

**Disposal:**

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

5970-45-6

Zinc acetate dihydrate

**2.3 Other hazards**

None known.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
zinc acetate dihydrate	5970-45-6 209-170-2	<= 100

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### Inhalation

Remove to fresh air. Keep patient warm and at rest. In case of feeling sick consult a physician.

##### Skin contact

Rinse with water.

##### Eye contact

Rinse with plenty of water. If symptoms persist, call a physician.

##### Ingestion

Rinse mouth with water. Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

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

Treatment : Rinse with plenty of water.

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2 Special hazards arising from the substance or mixture

No information available.

#### 5.3 Special protective actions for fire-fighters

Standard equipment for firefighting.



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### 5.4 Specific methods

The product is not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. For personal protection see section 8.

### 6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

### 6.3 Methods and materials for containment and cleaning up

Take up mechanically and collect into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep container closed when not in use. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in closed original packing, dry and at room temperature. Do not stack pallets.

Materials to avoid:

no data available

### 7.3 Specific end uses

Mineral feed supplement in animal feed., Pharmaceutical, Stabilizer, Additive, Antioxidant, Catalyst, Intermediate.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Limit Values

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In



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case of insufficient ventilation, wear suitable respiratory equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

### 8.2.2 Individual protection measures, such as personal protective equipment

#### Hand protection

Glove material: PVC

Glove material: Rubber gloves

#### Eye protection

Tightly fitting safety goggles or face-shield.

#### Skin and body protection

Work clothing.

#### Respiratory protection

Respirator must be worn if exposed to dust. Respirator with a dust filter

### 8.2.3 Environmental exposure controls

Prevent product from entering the environment. Do not flush into surface water or sanitary sewer system.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information (appearance, odour)

Physical state	solid, crystalline
Colour	white
Odour	mild, smell of acetic acid

#### Important health safety and environmental information

pH	6 - 6,6 ( 5 %) (as aqueous solution)
Melting point/range	237 °C
Boiling point/boiling range	258,2 °C
Flash point	> 250 °C (open cup)
Flammability (solid, gas)	The product is not flammable. (Flammability (solids))
Explosive properties:	
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.740 kg/m <sup>3</sup>
Solubility(ies):	
Water solubility	311 kg/m <sup>3</sup> ( 20 °C) approx. 435 g/l ( 25 °C) 666 kg/m <sup>3</sup> ( 100 °C)
Autoignition temperature	> 410 °C (Relative self-ignition temperature for solids)



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Thermal decomposition > 250 °C

### 9.2 Other data

Surface tension not applicable

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Stable under normal conditions.

### 10.5 Incompatible materials

Materials to avoid : no data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.  
Thermal decomposition : >250 °C

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

**Zinc acetate dihydrate:**  
LD50/Oral/rat: 663,83 mg/kg

#### Irritation and corrosion

Skin:  
Not classified as irritating for skin.



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Eyes:  
Not classified as irritating for eyes.

### Sensitisation

no data available

### Long term toxicity

Other information

no data available

### Human experience

Inhalation

Exposure to dust at high concentrations., Symptoms: Fever, cough and difficulties in breathing

Skin contact

Repeated or prolonged exposure,  
May cause mild irritation.

Eye contact

May cause mild irritation.

Ingestion

Symptoms: Diarrhoea, vomiting, Thirst, Lowered blood pressure

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity effects

Aquatic toxicity

**Zinc acetate dihydrate:**

LC50/48 h/Pimephales promelas (fathead minnow)/static test: 2,46 mg/l

Remarks: Expert judgement and weight of evidence determination.

EC50/48 h/semi-static test: 6,38 mg/l

Remarks: Expert judgement and weight of evidence determination.

EC50/72 h/Algal inhibition test: 2,1 mg/l

Remarks: Expert judgement and weight of evidence determination.

### Toxicity to other organisms

no data available



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### 12.2 Persistence and degradability

Biological degradability:

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4. Mobility in soil

#### Mobility

Water solubility: 311 kg/m<sup>3</sup> ( 20 °C)

approx. 435 g/l ( 25 °C)

666 kg/m<sup>3</sup> ( 100 °C)

Surface tension: not applicable

Water soluble. Stays in water phase. non-volatile

### 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

no data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product

Dispose of in compliance with local and national regulations.

## 14. TRANSPORT INFORMATION

14.1 UN number

3077

Land transport

ADR /RID:

Description of the goods:

14.2 UN proper shipping name

Environmentally hazardous substance, solid n.o.s. (Zinc acetate dihydrate )

14.3 Class

9

14.4 Packaging group:

III





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**Risk code** 90  
**ADR/RID-Labels:** 9  
**14.5 Environmentally Hazardous** Environmentally Hazardous

### Sea transport

#### IMDG:

#### Description of the goods:

**14.2UN proper shipping name** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (ZINC ACETATE DIHYDRATE )

**14.3 Class:** 9

**14.4 Packaging group:** III

**IMDG-Labels:** 9

**14.5 Environmentally Hazardous:** Marine pollutant

### Air transport

#### ICAO/IATA:

#### Description of the goods

**14.2UN proper shipping name** UN3077, Environmentally hazardous substance, solid n.o.s. (Zinc acetate dihydrate )

**14.3 Class:** 9

**14.4 Packaging group:** III

**ICAO-Labels:** 9

**14.5 Environmentally Hazardous** Environmentally Hazardous

#### 14.6 Special precautions for user

Keep in a dry place.

Marine pollutant

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 3 highly water endangering  
(Germany)

Other regulations : No restrictions identified other than those already covered in regulations.

### 15.2 Chemical Safety Assessment

no data available



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### 16. OTHER INFORMATION

#### Full text of H-Statements referred to under section 3.

H302	Harmful if swallowed.
H411	Toxic to aquatic life with long lasting effects.

#### Text of R-phrases mentioned in Section 3

R22	Harmful if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Training advice

Read the safety data sheet before using the product.

#### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

#### Additions, Deletions, Revisions

|| Relevant changes have been marked with vertical lines.