Section 1: Identification

1.1. Product identifier
Zinc Acetate, Progusta ZA, Calprona ZA

Registration number: 01-2120119383-62-0011

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 47th 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

Section 2: Hazards identification

2.1. Classification of the substance or mixture

USA: Classification according to 29 CFR 1910.1200 (CLP):
Acute toxicity, Category 4, Oral, H302
Serious eye damage, Category 1, H318
Chronic aquatic toxicity, Category 2, H411

EU: Classification according to Regulation (EU) 1272/2008(CLP):
Acute toxicity, Category 4, Oral, H302
Serious eye damage, Category 1, H318
Chronic aquatic toxicity, Category 2, H411
2.2. Label elements
USA & EU (CLP):
Hazard pictograms : 

Signal word: Danger

Hazard Statements: 
H302 Harmfull if Swallowed 
H318 Causes serious eye damage 
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:
Prevention: 
P270 Do not eat, drink or smoke when using this product.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/eye protection.
P273 Avoid release to the environment.

Response: 
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P391 Collect spillage

Hazardous components which must be listed on the label:
CAS 5970-45-6 Zinc acetate dihydrate

Further information: The product is classified and labelled in accordance with US and EC directives.

2.3. Other hazards
None known

Section 3: Composition/information on ingredients

3.1. Substances
Zinc acetate dihydrate : CAS 5970-45-6 <= 100 % 
EINECS 209-170-2
Other descriptions: Zinc acetate, Zinc di(acetate)
Section 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 unwell consult a physician.

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

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.

Ingestion
Rinse mouth with water. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See section 2.

4.3. Indication of immediate medical attention and special treatment needed
See section 2.

Section 5: Firefighting measures

5.1. Extinguishing media
Water spray, Foam, Dry Chemical or Carbon dioxide (CO₂)
Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture

Heating can release hazardous gasses.
Carbon oxides (COx), acetic acid

5.3. Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.
Specific methods
No special requirements. The product is not flammable.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid contact with eyes. Use personal protective equipment. For personal protection, see section 8.

6.2. Environmental precautions
Try to prevent the material from entering drains or watercourses.

6.3. Methods and materials for containment and cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in compliance with local and national regulations.

Section 7: Handling and storage

7.1. Precautions for safe handling
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Keep container closed when not in use.
Ensure that eyewash stations and safety showers are close to the workstation location.
7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Do not stack pallets.

7.3. Specific end use(s)
See section 1.

Section 8: Exposure controls/personal protection

8.1. Control parameters
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. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2. Individual protection measures, such as personal protective equipment

Hand protection
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

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 (with a P1 dust filter).

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance (physical state, color, etc.): white solid, crystalline
Odor: very faint smell of acetic acid
Odor threshold: No information available
pH: 6 – 8 (5 % w/w)
Melting point/freezing point: 237 °C / 459 °F
Initial boiling point and boiling range: 258 °C / 496 °F
Flash point: No information available, not flammable
Evaporation rate: No information available
Flammability (solid, gas): Not flammable
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No information available
Vapor density: No information available
Relative density: approx. 1740 kg/m³ / 109 lb/ft³
Solubility(ies): 311 kg/m³ (20 °C) / 19.4 lb/ft³ (68 °F), 666 kg/m³ (100 °C) / 41.6 lb/ft³ (212 °F)
Partition coefficient: n-octanol/water: No information available
Auto-ignition temperature: No information available
Decomposition temperature: No information available
Viscosity: No information available

Section 10: Stability and reactivity

10.1. Reactivity
No dangerous reaction known under conditions of normal use.
SAFETY DATA SHEET

Zinc acetate

Ref.40069/3.0/REG USA/EU/EN
Revision Date: 02.01.2019 Previous date: 17.07.2018 Print Date: 02.01.2019

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous reactions: none known.

10.4. Conditions to avoid
Conditions to avoid: stable under recommended storage conditions.

10.5. Incompatible materials
Materials to avoid: no data available.

10.6. Hazardous decomposition products
Hazardous decomposition products: carbon oxides (COx), zinc oxides, acetic acid

Section 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity
LD50/Oral/rat: 663.83 mg/kg (zinc acetate dihydrate)

Irritation and corrosion
Skin: No data available
Eyes: H318: Causes serious eye damage.

Sensitisation
No data available

Long-term toxicity
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
Repeated or prolonged exposure: Causes serious eye damage.
Ingestion
Repeated or prolonged exposure: Diarrhea, vomiting, Thirst, Lowered blood pressure.

Carcinogenicity
IARC: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Section 12: Ecological information

12.1. Toxicity
Aquatic toxicity
LC50/48 h/Pimephales promelas (fathead minnow)/static test: 2.46 mg/l
EC50/48 h/semi-static test: 6.38 mg/l
EC50/72 h/Algal inhibition test: 2.1 mg/l
SAFETY DATA SHEET
Zinc acetate

Toxicity to other organisms
No data available

12.2. Persistence and degradability
Biological degradability:
No data available

12.3. Bioaccumulative potential
Partition coefficient: No data available

12.4. Mobility in soil
Mobility
Water solubility: 311 kg/m³ (20 °C) / 19.4 lb/ft³ (68 °F)
666 kg/m³ (100 °C) / 41.6 lb/ft³ (212 °F)
Water soluble. Stays in water phase. non-volatile

12.5. Results of PBT and PvB assessment
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Section 13: Disposal considerations

13.1. Waste treatment methods
Product
Dispose of in compliance with local and national regulations.

Section 14: Transport information

14.1. UN number
3077

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

14.3. Transport hazard class(es)
9

14.4. Packaging group
III
Risk code:
90
ADR/RID labels:
9

14.5. Environmental hazards
Marine pollutant

14.6. Special precautions for user
No further information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
UN proper shipping name: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (ZINC ACETATE DIHYDRATE)
Class:
9
Packaging group:
III
IMDG labels:
9
EMS Number:
F-A, S-F
Environmentally Hazardous:
Marine pollutant
14.8. Air transport ICAO/IATA:
UN proper shipping name: UN3077, Environmentally hazardous substance, solid n.o.s. (Zinc acetate dihydrate)
Class: 9
Packaging group: III
ICAO labels: 9
Environmentally Hazardous: Marine pollutant

Section 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
U.S. TSCA Inventory Status: The components of this product are listed on the TSCA Inventory or are exempted from listing.
Water contaminating class: WGK 3 highly water endangering
(Germany)

15.2. Chemical safety assessment
A chemical safety assessment is performed for this substance.

Section 16: Other information
Last revised on January 2nd 2019 by Niacet EHSQ department

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.