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# Safety data sheet according to 1907/2006/EC, Article 31

revised on: 26.02.2024

Version number 5 (replaces version 4)

Creation Date: 19.09.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: Zinc acetate dihydrate
<ul> <li>Article number: 105, 112</li> <li>CAS Number: 5970-45-6</li> <li>EC number: 209-170-2</li> <li>Registration number A registration number for this substance is not available because the substance or its use is exempted from registration under Article 2 UK REACH Regulation (EC) No 1907/2006, the annual tonnage does not require registration or registration is foreseen for a later date.</li> <li>1.2 Relevant identified uses of the substance or mixture and uses advised against The product is not intended for use by consumers For professional users only</li> <li>Life cycle stages F Formulation or re-packing</li> </ul>
IS Use at industrial Sites Sector of Use SU9 Manufacture of fine chemicals SU24 Scientific research and development Product category PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents PC21 Laboratory chemicals PC29 Pharmaceuticals PC40 Extraction agents Process category
<ul> <li>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</li> <li>PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions</li> <li>PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition</li> <li>PROC4 Chemical production where opportunity for exposure arises</li> <li>PROC5 Mixing or blending in batch processes</li> <li>PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</li> <li>PROC15 Use as laboratory reagent</li> <li>Environmental release category</li> <li>ERC1 Manufacture of the substance</li> <li>ERC2 Formulation into mixture</li> <li>ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)</li> </ul>
ERC6a Use of intermediate • Application of the substance / the mixture Industrial use Chemical analytics Laboratory chemical • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Th. Geyer GmbH & Co. KG
Dornierstr. 4 – 6 D-71272 Renningen
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### Trade name: Zinc acetate dihydrate

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de

· Further information obtainable from: Product management department

### • 1.4 Emergency telephone number:

National Poisons Information Service City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

### **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

· 2.2 Label elements

### · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the GB CLP regulation.

Hazard pictograms



- · Signal word Warning
- · Hazard statements

H302 Harmful if swallowed. H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements
   P262 Do not get in eyes, on skin, or on clothing.
   P273 Avoid release to the environment.
- 2.3 Other hazards
- 2.3 Other hazards
- $\cdot$  Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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### **SECTION 3: Composition/information on ingredients**

### · 3.1 Substances

- · CAS No. Description
- CAS: 5970-45-6 Zinc acetate dihydrate
- · Identification number(s)
- EC number: 209-170-2

### **SECTION 4: First aid measures**

<ul> <li>4.1 Description of first aid measures</li> <li>General information:</li> <li>First aider needs to protect himself.</li> <li>Immediately remove any clothing soiled by the product.</li> <li>Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.</li> <li>After inhalation:</li> <li>Remove person from danger zone.</li> <li>Supply Iresh air.</li> <li>Seek immediate medical advice.</li> <li>After skin contact:</li> <li>Wash with plenty of soap and water, take off soiled clothes and shoes.</li> <li>Call a doctor immediately.</li> <li>Take into account possible simultaneous inhalation.</li> <li>After swallowing:</li> <li>Rinse out opened eye for several minutes under running water.</li> <li>Seek immediate medical advice.</li> <li>After swallowing:</li> <li>Rinse mouth thoroughly with water.</li> <li>A person vomiting while laying on their back should be turned onto their side.</li> <li>Have morting while laying on their back should be turned onto their side.</li> <li>Have morting while laying on their back should be turned onto their side.</li> <li>Have indoctor: Please observe safety data sheet/label.</li> <li>4.2 Most important symptoms and effects, both acute and delayed</li> <li>Gastric or intestinal disorders</li> <li>Causes severe eye irritation.</li> <li>In formation for doctor: Please observe safety data sheet/label.</li> <li>4.2 Most important symptoms of poisoning may only appear after a longer period of time.</li> <li>Hazards</li> <li>Danger of pneumonia.</li> <li>Strongly irritant to corrosive</li> <li>4.3 Indication of any immediate medical attention and special treatment needed In case of lung irritation, administer glucocorticoid dose aerosol.</li> <li>If necessary oxygen respiration treatment.</li> <li>Monitor circulation.</li> <li>Symptomaitic treatment.</li> </ul>
SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet.

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<ul> <li>5.2 Special hazards arising from the substance or mixture</li> </ul>	(Contd. of page 3)
Non-flammable.	
Formation of toxic gases is possible during heating or in case of fire.	
In case of fire, the following can be released:	
Carbon oxides (CO, CO2)	
Zinc/zinc oxides	
Formation of hazardous vapours possible due to ambient fire. • <b>5.3 Advice for firefighters</b>	
· Protective equipment:	
Wear self-contained respiratory protective device.	
Do not inhale explosion gases or combustion gases.	
Additional information	
Collect contaminated fire fighting water separately. It must not enter the sewage system.	
Dispose of fire debris and contaminated fire fighting water in accordance with official regular	tions.
Safely prevent extinguishing water from entering groundwater or surface water.	
SECTION 6: Accidental release measures	
6.1 Personal propultions, protective equipment and emergency procedures	
<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.</li> </ul>	
Clear the danger zone.	
Avoid contact with eyes and skin.	
Do not breathe dust.	
Wear protective clothing.	
Avoid formation of dust.	
<b>6.2 Environmental precautions:</b> Do not allow to enter sewers/surface or ground water.	
• 6.3 Methods and material for containment and cleaning up:	
Cover the sewerage system. Collect, dike and pump out.	
Pick up dry.	
Dispose contaminated material as waste according to section 13.	
Dispose of the material collected according to regulations.	
6.4 Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
SECTION 7: Handling and storage	
• 7.1 Precautions for safe handling	
Store in cool, dry place in tightly closed receptacles.	
Keep away from heat and direct sunlight.	
Apply the general protective and hygienic measures when handling chemicals.	
Information about fire - and explosion protection: The product is not flammable.	
· 7.2 Conditions for safe storage, including any incompatibilities	
· Storage:	
<ul> <li>Requirements to be met by storerooms and receptacles:</li> </ul>	
Prevent any seepage into the ground.	
Store only in the original receptacle.	
· Information about storage in one common storage facility: Store away from water.	
Further information about storage conditions:	
Store in dry conditions.	
Protect from humidity and water. • Storage class: 13	
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• 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Labsolute®protective

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

NBR: Acrylonitrile butadiene rubber

Material thickness > 0.11 mm

### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

level 6 for application > 480 min

Eye/face protection



Tightly sealed goggles

· Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

# SECTION 9: Physical and chemical properties

- $\cdot$  9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Colour:
- · Odour:
- · Melting point/freezing point:

Solid Colourless Odourless 237 °C

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Boiling point or initial boiling point and boiling	
range	Undetermined.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	100 °C (dec.)
pH	6–7
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	430 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1.74 g/cm <sup>3</sup>
	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	
See section 3.	
9.2 Other information	
Appearance:	
Form:	Solid material
Important information on protection of health and	l
environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Molecular weight	219.49 g/mol
Change in condition	AL
Evaporation rate	Not applicable.
Information with regard to physical hazard	
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	voiu
·	Void
gases in contact with water	
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void

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· Desensitised explosives

Void

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable when stored and handled properly.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Protect from moisture.
- · 10.5 Incompatible materials: Avoid contact with other chemicals.
- · 10.6 Hazardous decomposition products: In case of fire: see section 5.

### **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.

· LD/LC50 values relevant for classification:

Oral LD50 794 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

EC50 1.7 mg/l (seaweed) (72-96 h)

- 12.2 Persistence and degradability No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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SECTION 13:	Disposal	considerations
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### · 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws.

This product and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in accordance with the respective national regulations.

· European waste catalogue

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals 07 01 99 wastes not otherwise specified

HP6 Acute Toxicity HP14 Ecotoxic

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informatio	n
<ul> <li>· 14.1 UN number or ID number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN3077
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc acetate dihydrate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc acetate dihydrate)
$\cdot$ 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	9 (M7) Miscellaneous dangerous substances and articles. 9
	9
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	111
<ul> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (ADR):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
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· Special marking (IATA):	Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F
<ul> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
<ul> <li>14.7 Maritime transport in bulk according to IM instruments</li> </ul>	O Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 (-)
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC ACETATE DIHYDRATE), 9, III

### **SECTION 15: Regulatory information**

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

• Inventory of Hazardous Chemicals Substance is not listed.

- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- · Regulated poisons Substance is not listed.
- · Reportable explosives precursors Substance is not listed.
- Reportable poisons Substance is not listed.
- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



· Signal word Warning

### · Hazard statements

H302 Harmful if swallowed. H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

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<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances - ANNEX I Substance is not listed.</li> <li>Seveso category E1 Hazardous to the Aquatic Environment</li> <li>Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t</li> </ul>	(Contd. of page
<ul> <li>Named dangerous substances - ANNEX I Substance is not listed.</li> <li>Seveso category E1 Hazardous to the Aquatic Environment</li> </ul>	
Seveso category E1 Hazardous to the Aquatic Environment	
Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t	
Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t	
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substa	inces in electrical an
electronic equipment – Annex II	
Substance is not listed.	
REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the p	urpose of licensing
under Article 5(3))	
Substance is not listed.	
Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.	
Regulation (EC) No 273/2004 on drug precursors Substance is not listed.	
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade betw	een the Community
and third countries in drug precursors	
Substance is not listed.	
National regulations:	
Information about limitation of use:	
Employment restrictions concerning juveniles must be observed.	
Employment restrictions concerning pregnant and lactating women must be observed.	
<b>15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been cal	
SECTION 16: Other information	
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not constitute	
This information is based on our present knowledge. However, this shall not constitute specific product features and shall not establish a legally valid contractual relationship	
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