Safety Data Sheet

Date of Issue: 16.07.2020 Date of Expiry: 16.07.2025

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name: ECP Limited
Address: PO Box 34125, Birkenhead, Auckland 0746
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Emergency phone number: 0800 243 622 (24 hours)

Product	Zinc Acetate Dihydrate			**Code**	54901, 4296, 6540, 6541
CAS#	**HSNO#**	**UN #**	**DG Class/es**	**Packing group #**	
5970-45-6	HSR004897	3077	9	III	

Recommended use: Laboratory Investigations

2: Hazards identification

2.1 GHS Classification

Acute toxicity, Oral (Category D)
Serious eye damage (Category A)
Aquatic toxicity (Acute or Chronic) (Category B)

2.2 GHS Label elements, including precautionary statements

Hazard Pictogram

Signal word: Danger

Hazard statement(s)

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.

Response

P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.

Disposal

P501	Dispose of contents/container to an approved waste disposal plant.

3: Composition/information on ingredients

Substance / Mixture : Substance

3.1 Substances

Formula : $C_4H_6O_4Zn \cdot 2H_2O$
Molecular weight : 219.51 g/mol
CAS-No. : 5970-45-6
EC-No. : 209-170-2

Hazardous components

Component	Classification	Concentration
Zinc di(acetate)		
	6.1 D; 8.3 A; 9.1 B; H302, H318, H411	<= 100 %

4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

8: Exposure controls/personal protection

8.1 Control parameters
No exposure limits have been set for this substance.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	
	Form: powder
	Colour: white
b) pH	6.0 - 8.0 at 50 g/l at 25 °C
c) Melting point/freezing point	
Melting point/range	237 °C
d) Relative density	1.840 g/cm^3

10: Stability and reactivity

10.1 Incompatible materials
Oxidizing agents

10.2 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions:
Carbon oxides, zinc/zinc oxides.

11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 794 mg/kg
Remarks:
Sense organs and special senses (nose, eye, ear, and taste): eye: miosis (pupilliary Constriction).
Vascular: bp elevation not characterized in autonomic section.
Nutritional and gross metabolic: weight loss or decreased weight gain.

Germ cell mutagenicity
Genotoxicity in vitro - Human - lymphocyte
Cytogenetic analysis

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

Potential health effects
Inhalation
May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion
Harmful if swallowed.

Skin
May be harmful if absorbed through skin. May cause skin irritation.

Additional Information
RTECS: ZG8750000

12: Ecological information

12.1 Other adverse effects
Toxic to aquatic life with long lasting effects.

13: Disposal considerations

13.1 Waste treatment methods
Product
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	3077	3077	3077
14.2	**UN Proper Shipping name**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
14.3	**Transport Hazard Class**	9	9	9
14.4	**Packaging group**	III	III	III
14.5	**Environmental Hazards**	Yes	Yes	Yes
14.6	**Special precautions for user**	None		

15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture
National regulatory information

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required
Approved Handler Cert.: not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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