SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: February 09, 2022

SECTION 1. - - - - - - - - - PRODUCT AND COMPANY IDENTIFICATION- - - - - - - - - -

Product Name	Zinc acetate dihydrate
Product Code(s)	ZB1002
Recommended Use	For Laboratory Research Use Only Not for Human or Animal Drug Use
Supplier	Bio Basic Inc.
Address	20 Konrad Crescent, Markham, Ontario, Canada, L3R 8T4
Telephone	(905) 474 4493
Fax	(905) 474 5794
For Chemical Emergency Phone#	(416) 995 9730

SECTION 2. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - -

GHS Classification

Acute toxicity, Oral (Category 4)
Eye irritation (Category 2A)
Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H302	Harmful swallowed.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with lasting effect.

Precautionary statement(s)

P273	Avoid release to enviroment.
P280	Wear protective gloves/eye & face protection
P264:	wash skin thoroughly after handling
P270:	Do not drink, eat, smoke, when using this product.
P301 + P312:	If Swallowed: Call Poison Center or doctor/physician if you feel unwell
P391:	Collect spillage
P501	Dispose of contents / container to an approval waste disposal plant.
P330:	Rinse mouth
P337 + P313:	If eye irritation occurs: consult physician
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard:	2
Flammability:	0
Physical hazards:	0

NFPA Rating:

Health hazard 2,
Fire 0,
Reactivity hazard 0

Potential Health Effects

Inhalation	Harmful by inhalation.
Skin	Harmful in contact with skin.
Eyes	Risk of serious damage to eyes.
Ingestion	Harmful if swallowed.

SECTION 3. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - - -

Chemical Name	EC No.	CAS-No	Weight %
Zinc acetate dihydrate	209-170-2	5970-45-6	<100

SECTION 4. - - - - - - - - - - FIRST-AID MEASURES- - - - - - - - - - -

Eyes: rinse immediately with plenty of water for 15 min.
Skin:. Rinse with plenty of soap & water
Ingestion: Do not induce vomiting without medical advice. Rinse with water.
Inhalation: Move to fresh air.
Physician: Treat symptomatically and supportively.

SECTION 5. - - - - - - - - - FIRE FIGHTING MEASURES - - - - - - - - - -

Info: wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.
Special Hazards: Carbon & zinc oxides
Extinguishing: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

SECTION 6. - - - - - - - - ACCIDENTAL RELEASE MEASURES- - - - - - - - -

Info: Use proper PPE as indicated in Section 8.
Spills: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Flush spill area with water. Provide ventilation. Do not let product enter drains.

SECTION 7. - - - - - - - - - - HANDLING AND STORAGE- - - - - - - - - - -

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes and skin. Avoid ingestion and inhalation. Discard contaminated shoes.
Storage: Store in a cool, dry place. Keep containers tightly closed.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

Controls: Use adequate ventilation to keep airborne concentrations low.

Chemical Name	ACGIH	NIOSH	OSHA Final PELs
Zinc acetate dehydrate	None listed	None listed	None listed

PPE: Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure. 0.11mm thick nitrile.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirators use.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. - - - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - - - -

Appearance: White crystalline powder.
Odor: Faint vinegar-like odor.
pH: 6-8 at 50g/l at 25˚C
Melting Point: 237°C (459˚F)
Relative Density: 1.840 g/cm3

SECTION 10. - - - - - - - - -STABILITY AND REACTIVITY - - - - - - - - -

Stability: Stable under normal temperatures and pressures.
Avoid: Incompatibles, excess heat.
Hazardous Decomp: see section 5
Incompatibilities: Oxidizing agents.

SECTION 11. - - - - - - - - - TOXICOLOGICAL INFORMATION - - - - - - - -

RTECS#:: ZG8750000
LD50: Oral rat: 794 mg/kg
Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: Mild skin & eye irritation
Mutagenicity: Cytogenetic analysis

SECTION 12. - - - - - - - - - ECOLOGICAL INFORMATION - - - - - - - - - -

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0,55 mg/l - 96 h
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13. - - - - - - - - - DISPOSAL CONSIDERATIONS - - - - - - - - -

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

SECTION 14. - - - - - - - - - - TRANSPORT INFORMATION - - - - - - - - -

DOT: UN 3077, Environmentally hazardous substances, solid, n.o.s., (Zinc di(acetate)), 9, III, ERG 171

IMDG: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (Zinc di(acetate)), 9, III

IATA: UN 3077, Environmentally hazardous substance, solid, n.o.s., (Zinc di(acetate)), 9, III

SECTION 15. - - - - - - - - - REGULATORY INFORMATION - - - - - - - - - -

SARA 311/312: acute health hazard
Section 302 (RQ) and Section 302 (TPQ): None of the chemicals in this product have and RQ or a TPQ.
Section 313: This material contains Zinc acetate dihydrate (listed as Zinc), 98% (CAS# 5970-45-6) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
State: CAS# 5970-45-6 is not present on state lists from CA, MN, FL.
Massachusetts Right to Know: Zinc di(acetate) CAS# 5970-45-6 Revision Date: 04/24/1993

Pennsylvania Right to Know: Zinc di(acetate) CAS# 5970-45-6 Revision Date: 04/24/1993
New Jersey Right to Know: Zinc di(acetate) CAS# 5970-45-6 Revision Date: 04/24/1993
California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN / INTERNATIONAL REGULATIONS European Labeling in Accordance with EC Directives
Hazard Symbols: XN N **WGK (Water Danger/Safety):** CAS# 5970-45-6: No information available.
Canada DSL/NDSL List: None of the chemicals in this product are listed on the DSL or NDSL list.
Canada WHMIS: The product has a WHMIS classification of D2B.
Canadian Ingredient Disclosure List: CAS#5970-45-6 is not listed on the Canadian Ingredient Disclosure List.
Exposure Limits: CAS# 5970-45-6 (listed as Zinc): OEL-ARAB Republic of Egypt: TWA 0.1 mg/m3.

SECTION 16. - - - - - - - - - - OTHER INFORMATION- - - - - - - - - - - -

Further information: no limited for paper copy, just for internal uses.
For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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End of SDS