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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	FutureChem(R) ZnSIP	
Product Identification Number(s)	70127, E701270S	
Manufacturer/Supplier	FutureFuel Chemical Company	
	Gap Road 2800	
	Batesville, AR 72503	
	US	
MSDS Prepared by	Product Safety and Health	
Chemical Name	5-Sulfoisophthalic Acid, Zinc (II) Salt	
Synonym(s)	not applicable	
Molecular Formula	not applicable	
Molecular Weight	not applicable	
Product Use	research and development sample	
OSHA Status	hazardous	

For product information telephone FutureFuel Chemical Company 870-698-3000, 8:00 am - 4:00 pm, Central.

Emergency telephone CHEMTREC: US 800-424-9300, international 703-527-3887

2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided, if available.)

Weight %	<u>Component</u>	CAS Registry No.
>=98%	5-Sulfoisophthalic Acid, Zinc (II) Salt	65492-65-1
<=2%	water	7732-18-5

3. HAZARDS IDENTIFICATION

DANGER! CAUSES EYE BURNS CAUSES SKIN IRRITATION DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED

HMIS® Hazard Ratings: Health - 3, Flammability -1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

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- **Eyes:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention immediately.
- **Skin:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical, carbon dioxide

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. **Hazardous Combustion Products:** carbon dioxide, carbon monoxide, oxides of sulfur, oxides of zinc **Unusual Fire and Explosion Hazards:** Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

- Wear appropriate personal protective equipment. Sweep up and place in a clearly labeled container for chemical waste.
- For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. HANDLING AND STORAGE

- **Personal Precautionary Measures:** Avoid breathing dust. Do not get in eyes and avoid contact with skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling.
- Prevention of Fire and Explosion: Keep from contact with oxidizing materials. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

- **Ventilation:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- **Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
- Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-

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face respirator, if needed.

Skin Protection: Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Recommended Decontamination Facilities: eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

 Physical Form: solid (powder)

 Color: white

 Odor: odorless

 Melts with Decomposition: >400 ℃

 Flash Point: not applicable, combustible solid

 Thermal Decomposition Temperature: Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

10. STABILITY AND REACTIVITY

Stability:

Incompatibility: Hazardous Polymerization: Not fully evaluated. Materials containing similar structural groups are normally stable. Material reacts with strong oxidizing agents. Will not occur.

11. TOXICOLOGICAL INFORMATION

General: The health hazard evaluation is based on the toxicological properties of a similar material. *Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.*

Data for a very similar material Oral LD-50:(rat) Skin Irritation (rabbit) Eye Irritation (rabbit)

2,600 mg/kg slight severe

12. ECOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below. Additional toxicity data may be available on request.

This material has not been tested for environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

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Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT (USA)

Class not regulated

Sea - IMDG (International Maritime Dangerous Goods)

Class not regulated

Air - ICAO (International Civil Aviation Organization)

Class not regulated

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS (Canada) Status: controlled

WHMIS (Canada) Hazard Classification: D/2/B

- SARA 311-312 Hazard Classification(s): immediate (acute) health hazard
- SARA 313: none, unless listed below ZINC COMPOUNDS 98%

Carcinogenicity Classification (components present at 0.1% or more): none, unless listed below

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- **TSCA (US Toxic Substances Control Act):** One or more components of this product are not listed on the TSCA inventory. In the USA, its use is restricted to research and development purposes only. This product must be handled by or under the direct supervision of technically qualified persons.
- DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): One or more components of this product are not listed on the DSL. In Canada, its use is restricted to research and development purposes only.
- **EINECS (European Inventory of Existing Commercial Chemical Substances):** One or more components or reactants of this product are not listed on EINECS. In the European Union, its use is restricted to research and development purposes only.
- AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): One or more components of this product are not listed on AICS.In Australia, its use is restricted to research and development purposes only.
- MITI (Japanese Handbook of Existing and New Chemical Substances): One or more components of this product are not listed in the Handbook. In Japan, its use is restricted to research and development purposes only.
- ECL (Korean Toxic Substances Control Act): One or more components of this product are not listed on the Korean inventory. In Korea, its use is restricted to research and development purposes only.
- Philippines Inventory (PICCS) : One or more components of this product are not listed on the Philippine inventory. In the Philippines, commercial industrial use is restricted to lawful food, drug, or cosmetic applications. Other uses are restricted to research and development purposes only.
- **Inventory of Existing Chemical Substances in China:** One or more components of this product are not listed on the Inventory of Existing Chemical Substances in China (IECSC).

16.OTHER INFORMATION

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment.

Highlighted areas indicate new or changed information.