



## MATERIAL SAFETY DATA SHEET

Revision Date: 10/21/2009

MSDSANSI/ANSI/EN/150000000030/Version 5.4

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	FutureChem(R) SSIPA
<b>Product Identification Number(s)</b>	03278-00, P0327802, P0327803, P0327807, P0327808, P0327809, E0327802, P032780A, P032780K, P032780J, P032780S
<b>Manufacturer/Supplier</b>	FutureFuel Chemical Company Gap Road 2800 Batesville, AR 72503 US
<b>MSDS Prepared by</b>	Product Safety and Health
<b>Chemical Name</b>	FutureChem SSIPA
<b>Synonym(s)</b>	03278-00 908623
<b>Molecular Formula</b>	C8H5NaO7S
<b>Molecular Weight</b>	268.19
<b>Product Use</b>	chemical intermediate
<b>OSHA Status</b>	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.)*

<b>Weight %</b>	<b>Component</b>	<b>CAS Registry No.</b>
99.6%	5-(sodiosulfo)isophthalic acid	6362-79-4
0.3%	sodium sulfate	7757-82-6
0.1%	sulfuric acid	7664-93-9

### 3. HAZARDS IDENTIFICATION

DANGER!  
CAUSES EYE BURNS

**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.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

## MATERIAL SAFETY DATA SHEET

Revision Date: 10/21/2009

MSDSANSI/ANSI/EN/15000000030/Version 5.4

lenses. Get medical attention immediately.

**Skin:** Wash with soap and water. Get medical attention if symptoms occur.

**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 sodium, oxides of sulfur

**Unusual Fire and Explosion Hazards:** Powdered material may form explosive dust-air mixtures.

### 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Sweep up and place in a clearly labeled container for chemical waste.

### 7. HANDLING AND STORAGE

**Personal Precautionary Measures:** Do not get in eyes. 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).

**Skin Protection:** It is a good industrial hygiene practice to minimize skin contact.

**Recommended Decontamination Facilities:** eye bath, washing facilities

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** solid (powder)

## MATERIAL SAFETY DATA SHEET

Revision Date: 10/21/2009

MSDSANSI/ANSI/EN/150000000030/Version 5.4

**Color:** white

**Odor:** slight

**Specific Gravity:** 1.87

**Melting Point:** >300 °C

**Solubility in Water:** 345 g/l

**pH:** acidic

**Octanol/Water Partition Coefficient:** P: <0.02; log P: <-1.7

**Flash Point:** not applicable, combustible solid

**Thermal Decomposition Temperature:** (DSC) No exotherm to 500°C

### 10. STABILITY AND REACTIVITY

**Stability:** Stable.  
**Incompatibility:** Material reacts with strong oxidizing agents.  
**Hazardous Polymerization:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

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

Oral LD-50:(rat)	>3,200 mg/kg(highest dose tested)
Oral LD-50:(mouse)	>3,200 mg/kg(highest dose tested)
Dermal LD-50: ( guinea pig)	> 1,000 mg/kg (highest dose tested)
Skin Irritation (guinea pig)	slight
Eye Irritation (rabbit, unwashed eyes)	severe
Eye Irritation (rabbit, washed eyes)	slight
Skin Sensitization: (guinea pig)	none

### 12. ECOLOGICAL INFORMATION

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

**Oxygen Demand Data:**

BOD-5: < 0.38 mg/g

BOD-20: < 1.1 mg/g

**Acute Aquatic Effects Data:**

96 h LC-50 (fathead minnow): > 100 mg/l (highest concentration tested)

96 h LC-50 (sideswimmer): > 100 mg/l (highest concentration tested)

96 h LC-50 (daphnid): > 100 mg/l (highest concentration tested)

96 h LC-50 (flatworm): > 100 mg/l (highest concentration tested)

96 h LC-50 (snail): > 100 mg/l (highest concentration tested)

96 h LC-50 (pill bug): > 100 mg/l (highest concentration tested)

96 h LC-50 (segmented worm): > 100 mg/l (highest concentration tested)

### 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.

## MATERIAL SAFETY DATA SHEET

Revision Date: 10/21/2009

MSDSANSI/ANSI/EN/150000000030/Version 5.4

### 14. TRANSPORT INFORMATION

*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

**SARA 311-312 Hazard Classification(s):**  
immediate (acute) health hazard

**SARA 313: none, unless listed below**

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

## MATERIAL SAFETY DATA SHEET

Revision Date: 10/21/2009

MSDSANSI/ANSI/EN/150000000030/Version 5.4

**IARC (International Agency for Research on Cancer):**

sulfuric acid: carcinogenic to humans

**NTP (National Toxicology Program):**

sulfuric acid: known to be a carcinogen

**TSCA (US Toxic Substances Control Act):** This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** This product is listed on the DSL. Any impurities present in this product are exempt from listing.

**EINECS (European Inventory of Existing Commercial Chemical Substances):** This product is listed on EINECS or otherwise complies with EINECS requirements. **EINECS Number:** 228-845-2

**AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** This product is listed on AICS or otherwise complies with NICNAS.

**MITI (Japanese Handbook of Existing and New Chemical Substances):** This product is listed in the Handbook or has been approved in Japan by new substance notification.

**ECL (Korean Toxic Substances Control Act):** This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

**Philippines Inventory (PICCS) :** This product is listed on the Philippine Inventory or otherwise complies with PICCS.

**Inventory of Existing Chemical Substances in China:** All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

### 16. OTHER INFORMATION

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*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.*