



## MATERIAL SAFETY DATA SHEET

Revision Date: 09/28/2009

MSDSANSI/ANSI/EN/150000100352/Version 2.2

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	FutureChem SPS
<b>Product Identification Number(s)</b>	3582-OS, E035820S, P035820S, P0358200, P0358201, P0358202, P0358203
<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>	Benzenesulfonic acid, hydroxy-, sodium salt (1:1)
<b>Synonym(s)</b>	Sodium Phenolsulfonate, 3582-S
<b>Molecular Formula</b>	C6H5NaO4S
<b>Molecular Weight</b>	196.16
<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.)

<u>Weight %</u>	<u>Component</u>	<u>CAS Registry No.</u>
>94%	hydroxybenzenesulfonic acid, monosodium salt	1300-51-2
<3%	other impurities	not applicable
<2%	sodium sulfate	7757-82-6
<2%	water	7732-18-5

### 3. HAZARDS IDENTIFICATION

WARNING!  
CAUSES EYE IRRITATION

**HMIS® Hazard Ratings:** Health - 2, 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:** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

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

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lenses. Get medical attention.

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

**Ingestion:** Seek medical advice.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** water spray, carbon dioxide, dry chemical, alcohol foam

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** carbon dioxide, carbon monoxide, oxides of sulfur, hydrogen sulfide, oxides of sodium

**Unusual Fire and Explosion Hazards:** none

### 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 contact with 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. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

**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: dust

**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 (crystal)

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**Color:** white

**Odor:** odorless

**Specific Gravity:** > 1 estimated

**Melting Point:** > 378 °C

**Solubility in Water:** appreciable

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

**Thermal Decomposition Temperature:** (HPDSC) No exotherm to 400°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
Oral LD-50:(mouse)	>3,200 mg/kg
Dermal LD-50: ( guinea pig)	> 1,000 mg/kg
Skin Irritation (guinea pig)	slight
Eye Irritation (rabbit, unwashed eyes)	moderate
Eye Irritation (rabbit, washed eyes)	moderate
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: 3 mg/g  
BOD-20: 1,000 mg/g

COD (Chemical Oxygen Demand):: 930 mg/g

**Acute Aquatic Effects Data:**

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

### 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

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

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**TSCA (US Toxic Substances Control Act):** All components of this product are 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):** All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

**EINECS (European Inventory of Existing Commercial Chemical Substances):** All components of this product are listed on EINECS. Any impurities present in this product are exempt from listing. **EINECS Number:** 215-087-2

**AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** All components of this product are listed on AICS or otherwise comply with NICNAS.

**MITI (Japanese Handbook of Existing and New Chemical Substances):** All components of this product are listed in the Handbook or have been approved in Japan by new substance notification.

**ECL (Korean Toxic Substances Control Act):** All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

**Philippines Inventory (PICCS) :** One or more components of this product are not listed on the Philippine inventory.

**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.*