

# Safety data sheet

**Hydrosulfite FE Conc. BASF - Chemical Solutions, Inc.**

Revision date : 2005/03/09

Version: 1.0

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(30048432/MDS\_TEX\_US/EN)

## 1. Substance/preparation and company identification

US Agent  
Chemical Solutions, Inc

24 Hour Emergency Response Information  
CHEMTRREC: (800) 424-9300

Franklin, MA 02038-0675 Tel: 508-520-3900

Chemical family:

stabilizing agents

## 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical Name</u>
7775-14-5	89.5 %	sodium dithionite
7681-57-4	4.5 %	disodium disulphite
497-19-8	2.25 %	sodium carbonate
7757-83-7	2.0 %	sodium sulphite

## 3. Hazard Identification

### Emergency overview

**DANGER: FLAMMABLE SOLID. HARMFUL IF SWALLOWED.  
REACTS VIOLENTLY AND EXOTHERMALLY WITH WATER, MOIST AIR, ACIDS, OR ALCOHOLS  
LIBERATING FLAMMABLE VAPORS WHICH CAN IGNITE.**  
Use with local exhaust ventilation.  
Wear a NIOSH-certified (or equivalent) particulate respirator.  
Wear NIOSH-certified chemical goggles.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.  
Store in a cool (below 75 degrees F, preferably below 70 degrees F), dry area.

### Potential health effects

#### Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

#### Acute toxicity:

Harmful if swallowed.

#### Sensitization:

May cause sensitization by inhalation and skin contact.

#### Repeated dose toxicity:

No known chronic effects.

## 4. First-aid measures

### General advice:

Remove contaminated clothing.

### If inhaled:

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

### If on skin:

Wash affected areas with water for at least 15 minutes. Immediate medical attention required.

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**If in eyes:**  
Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

**If swallowed:**  
Rinse mouth immediately and then drink plenty of water, seek medical attention.

### 5. Fire-fighting measures

**Flammability:** Risk of spontaneous ignition.  
**Self-ignition temperature:** > 80 °C  
**Suitable extinguishing media:** Water in copious quantities  
**Unsuitable extinguishing media for safety reasons:** water spray, water fog

**Additional information:**  
Self inflammation possible by spray waters or water in small quantities.

**Hazards during fire-fighting:**  
Sulphur dioxide.  
The substance/groups of substances mentioned can be released in case of fire.

**Protective equipment for fire-fighting:**  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

**NFPA Hazard codes:**  
**Health : 2    Fire: 1    Reactivity: 2    Special:**

### 6. Accidental release measures

**Personal precautions:**  
Avoid contact with the skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

**Environmental precautions:**  
Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

**Cleanup:**  
Spills should be contained and placed in suitable containers for disposal.

### 7. Handling and storage

#### Handling

**General advice:**  
Ensure thorough ventilation of stores and work areas. Closed containers should only be opened in well-ventilated areas.

**Protection against fire and explosion:**  
The product is self combustible but not explosive.

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### Storage

#### General advice:

Protect against moisture. Containers should be stored tightly sealed in a dry place. Keep away from heat.

#### Storage incompatibility:

General: Segregate from acids. Segregate from oxidants.

#### Storage stability:

Storage duration: 12 Months

Improper storage may result in pressure build up in the drums. Large quantities of the product should not be kept in stockrooms with sprinkler installation due to a possible self inflammation by small quantities of water.

## 8. Exposure controls and personal protection

### Components with workplace control parameters

disodium disulphite

ACGIH

TWA value 5 mg/m<sup>3</sup> :

#### Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

### Personal protective equipment

#### Respiratory protection:

Breathing protection if dusts are formed. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### Hand protection:

Chemical resistant protective gloves, PVC-coated gloves, butyl rubber

#### Eye protection:

Tightly fitting safety goggles (chemical goggles).

## 9. Physical and chemical properties

Form:	powder
Odour:	pungent odour
Colour:	white
pH value:	5.5 - 8.5
decomposition point:	> 80 °C
Relative density:	2.5
Bulk density:	750 - 900 kg/m <sup>3</sup>
Partitioning coefficient n-octanol/water (log Pow):	< -4.7
Solubility in water:	> 150 g/l
	( 20 °C) slow decomposition

## 10. Stability and reactivity

#### Conditions to avoid:

> 80 degrees Celsius

Avoid humidity.

#### Substances to avoid:

acids, oxidizing agent

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### **Hazardous reactions:**

Reacts with acids. Reacts with oxidizing agents. Reacts with damp air. Safe inflammation possible by spray waters or water in small quantities. On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers.

### **Decomposition products:**

Hazardous decomposition products: Sulphur dioxide

### **Thermal decomposition:**

80 °C

Thermal decomposition above the indicated temperature is possible.

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## 11. Toxicological information

### Acute toxicity

#### **Oral:**

LD50/rat: 2.500 mg/kg (BASF-Test)

#### **Inhalation:**

rat (IRT)

No mortality was observed.

#### **Skin irritation:**

rabbit: non-irritant (BASF-Test)

#### **Eye irritation :**

rabbit: Irritant. (OECD Guideline 405)

#### **Chronic toxicity**

#### **Genetic toxicity:**

The substance was not mutagenic in bacteria.

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## 12. Ecological information

### Environmental fate and transport

#### **Biodegradation:**

Evaluation:  
purification processes.

Inorganic product which cannot be eliminated from water by biological

#### **Bioaccumulation:**

Accumulation in organisms is not to be expected.

### Environmental toxicity

#### **Acute and prolonged toxicity to fish:**

DIN 38412 Part 15 static

golden orfe/LC50 (96 h): 46 - 68 mg/l

Nominal concentration.

#### **Acute toxicity to aquatic invertebrates:**

Directive 79/831/EEC Daphnia magna/EC50 (48 h): 98 mg/l

Nominal concentration.

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**Toxicity to aquatic plants:**  
DIN 38412 Part 9 green algae/EC50 (72 h): 120 mg/l  
Nominal concentration.

**Toxicity to microorganisms:**  
DIN 38412 Part 8 bacterium/EC10 (17 h): 62 mg/l  
Nominal concentration.

### 13. Disposal considerations

**Waste disposal of substance:**

The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste.

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

**Contaminated packaging:**

Do not reuse empty containers.

RCRA: D003

### 14. Transport information

Reference Bill of Lading

### 15. Regulatory information

Federal Regulations

Registration status:  
TSCA, US

released / listed

**OSHA hazard category:** Chronic target organ effects reported, Acute target organ effects reported, ACGIH TLV established, Skin and/or eye irritant

**SARA hazard categories (EPCRA 311/312):** Acute, Chronic

State regulations

State RTK

**CAS Number**  
7775-14-6  
7681-67-4

**Chemical name**  
sodium dithionite  
disodium disulphite

**State RTK**  
MA, NJ, PA  
MA, NJ, PA

### 16. Other information

**HMIS III rating**  
Health: 2a      Flammability: 1      Physical hazard: 2

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

**Local contact information**  
N-EVN\_regulatory@basf-corp.com

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