

# MATERIAL SAFETY DATA SHEET

## VALCHEM FIXER WITH HARDENER

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Synergy Graphics Phone Number: 1-800-521-4042 Emergency Phone: 1-800-424-9300  
 Product Name: VALCHEM FIXER WITH HARDENER Product Number: 739020, 729200, 739210, 739290, 739322  
 Prepared By: MSDS Author 3 Date Prepared: 05/06/2004

Chemical Name	CAS	OSHA PEL	ACGIH TLV	Weight %
AMMONIUM THIOSULFATE	7783-18-8	N.E.	N.E.	65-75
SODIUM SULFITE	7757-83-7	N.E.	5 mg/m <sup>3</sup>	1-10
BORIC ACID	10043-35-3	15 mg/m <sup>3</sup>	10mg/m <sup>3</sup>	1-5
ACETIC ACID	64-19-7	25mg/m <sup>3</sup>	25 mg/m <sup>3</sup>	1-5

### 3. HAZARDOUS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

Eye Contact: Causes severe irritation.

Inhalation: May cause irritation mucous membranes and to upper respiratory tract.

Ingestion: May cause irritation to gastrointestinal track. Some asthmatics or sulfite-sensitive persons may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness, and diarrhea.

Skin Contact: May cause irritation or reddening.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, coughing, nausea, diarrhea.

### 4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin Contact: Immediately wash skin with plenty of soap. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

Aggravated Medical Conditions: Asthmatics or hypersensitive individuals may experience difficult breathing.

Supplemental Health Information: None of the components in this product is listed by IARC, NTP, or OSHA as carcinogen.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash Point: Nonflammable Flash Point Method: Not applicable Auto-ignition: Not applicable

LEL: Not applicable UEL: Not applicable

Extinguishing Media: Any applicable to the primary cause of the fire. Flood with water.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire And Explosion Hazards: None known.

Combustion Products: Carbon dioxide, carbon monoxide, oxides of sulfur and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Spilled Or Released:** Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment during cleanup. For small amount less than one gallon flush to sewer with large amounts of water. For larger spills, dike the spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry, or other absorbent material. Absorb spillage in inert material. Remove non-usable solid material and/or contaminated soil for disposal. Discharge to sewer may require approval of local authorities. Contaminated surfaces may be cleaned using water.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storage:** Store in a cool, dry, well ventilated area. Keep containers closed. Do not store with incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

**Other Precautions:** All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse containers. Triple rinse before disposal.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory Protection:** When this product is used in the intended way, no respiratory protection is anticipated to be necessary.

**Ventilation:** Avoid breathing vapors or mist. Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

**Protective Gloves:** Impervious gloves and aprons recommended.

**Eye Protection:** Chemical safety glasses with side shields (or goggles).

**Other Protective Clothing or Equipment:** Rubber or plastic apron.

**Work/Hygienic Practices:** Use good personal hygiene when handling this product. Wash hands after use, before smoking or using the toilet.

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Exposure Guidelines:** See Section 2.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance And Odor:** Clear, slightly yellow, mild odor.

**Boiling Point:** >100° C

**Vapor Pressure:** 18mm Hg @ 20° C

**Specific Gravity:** 1.32 g/ml

**Melting Point:** Not applicable

**Evaporation Rate:** N.E.

**Vapor Density:** N.E.

**Molecular Weight:** Not applicable

**Pounds Per Gallon:** 11.01

**V.O.C. is** 41.89 g/L or 3.17% or 0.349 lb./gal.

**Solubility In Water:** Complete

**Ph:** 5.10

**Freezing Point:** N.E.

**Percent Volatile:** 44.69

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions To Avoid:** Strong acids and alkali.

**Incompatibility:** Strong acids will liberate sulfur dioxide. Strong bases of sodium hydroxide will liberate ammonia fumes.

**Hazardous Decomposition Or By Products:** May produce oxides of sulfur and ammonia.

**Hazardous Polymerization:** Will Not Occur

**Conditions To Avoid:** None

## 11. TOXICOLOGICAL INFORMATION

**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS**

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**14. TRANSPORT INFORMATION**

DOT Class: NOT REGULATED

Hazard Class: NONE

UN No: NA

Packing Group:

Guide No:

Ship Name:

**15. REGULATORY INFORMATION**

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SARA TITLE III: NONE

CALIF. PROP. 65: NONE

CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

**16. OTHER INFORMATION (HMIS)**

Health: 1

Flammability: 0

Reactivity: 0

Protective: C

**OTHER ADDITIONAL INFORMATION:** The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.