

# MATERIAL SAFETY DATA SHEET

**HAZARD RATINGS**  
Health: 2  
Flammability: 0  
Reactivity: 1  
Personal Protection: B

**NOTICE:** Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

## SECTION I. PRODUCT IDENTIFICATION

Product Identifier: Big 4 RTU  
Product VOC: 0  
Manufacturer's Name: Kor-Chem, Inc.  
5800 Bucknell Drive  
Atlanta, GA 30336

Product Identification #(PIF): 5094  
Emergency Telephone #: 1-800-255-3924  
General Information #: 404-344-9580  
Prepared by: Regulatory Affairs Dept.  
Date Prepared: December 6, 2009

## SECTION II. HAZARDOUS INGREDIENTS

	CAS #	OSHA/PEL	TLV	STEL	max. %
1. Sodium Metasilicate	6834-92-0	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	NE	0-1

## SECTION III. HEALTH HAZARD INFORMATION

.....Primary Routes of Entry: X Skin X Eyes \_\_\_ Inhalation \_\_\_ Ingestion

◆ *Effects of overexposure:*

- Eye Contact: Corrosive to eyes.
- Skin Contact: Corrosive to body tissues. Dermatitis may result from repeated exposure.
- Inhalation: May cause irritation of respiratory tract.
- Ingestion: May cause abdominal discomfort, nausea, and diarrhea.

## SECTION IV. EMERGENCY FIRST AID

- ◆ *Eyes:* Flush well with water for at least 15 minutes. Get medical help if irritation persists.
- ◆ *Skin:* Wash well with soap and water.
- ◆ *Inhalation:* Move to fresh air.
- ◆ *Ingestion:* Drink lots of water to dilute, **DO NOT INDUCE VOMITING.** Get medical help.

## SECTION V. FIRE & EXPLOSION DATA

Flammability: NOT FLAMMABLE  
Means of extinction: Water spray, dry chemicals, CO<sub>2</sub>.  
Autoignition Temperature: NA  
Hazardous combustion products: NONE

Flash Point: NA  
Upper Flammability Limit (% by volume): NA  
Lower Flammability Limit (% by volume): NA

- ◆ *Special Fire Fighting Procedures:* Wear NIOSH approved pressure self-contained breathing apparatus and full protective clothing.
- ◆ *Unusual Fire Fighting Hazard:* Oxides of carbon and nitrogen.

## SECTION VI. REACTIVITY DATA

Chemical stability: Stable  
Hazardous polymerization: Will not occur.  
Incompatibility with other substances: Avoid contact with acids and metals, such as aluminum, tin, lead and zinc.  
Reactivity, and under what conditions? Prolonged contact with metals may produce flammable hydrogen gas.  
Hazardous decomposition products: Thermal decomposition may produce CO<sub>2</sub>, and CO since the product contains organic material.

## SECTION VII. HANDLING & STORAGE

*Storage:* Keep container closed, when not in use. Keep away from heat, flame, or sunlight. Protect from physical damage.  
*Handling:* Do not premix with other chemicals. Exercise reasonable care and precaution. Keep out of reach of children.

**SECTION VIII. EXPOSURE CONTROL/PERSONAL PROTECTION**

Personal protective equipment: Use rubber gloves and eye protection.

Gloves (specify): Chemical resistant gloves

Eye (specify): Safety glasses

Clothing (specify): Normal materials handling clothing

Respirator (specify): NA

Footwear (specify): Chemical resistant shoes

Other: Emergency shower/eyewash close-by.

**SECTION IX. SPECIAL PRECAUTIONS/ OTHER COMMENTS**

Carefully read all instructions on label before handling this product.

“FOR INDUSTRIAL USE ONLY”

**SECTION X. PHYSICAL DATA**

Boiling point: >212°F

Specific Gravity, (water + 1.0): 1.0

% Volatile/ volume: 99%

Solubility: Complete

Description/odor: Clear/green liquid with a characteristic odor.

Vapor Density: (Air = 1): ND

pH, Neat: 12.0

Vapor Pressure: ND

Evaporation Rate: ND

**SECTION XI. TOXICOLOGICAL INFORMATION**

◆ Effects of acute exposure to product: Corrosive to eyes and body tissues.

◆ Effects of chronic exposure to product: Dermatitis may result from repeated exposure.

**SECTION XII. ECOLOGICAL INFORMATION**

Sodium metasilicate: LC50 (96 hour) (Mosquitofish) = 530 mg/L, LC50 (48 hour) (Water Flea) = 113 mg/L (Practically non-toxic)

**SECTION XIII. ACCIDENTAL RELEASE MEASURES/ DISPOSAL INFORMATION**

Large spills cannot occur because of packaging. Dam up spills with inert material, neutralize with mild acid such as citric acid, then wash to drain, according to local, state and federal regulations. Do not release to open, public waters.

**SECTION XIV. TRANSPORT INFORMATION**

Not Regulated.....

**SECTION XV. REGULATORY INFORMATION**

**SARA TITLE III REPORTING REQUIREMENTS**

SECTION 302: Not listed

SECTION 311: Acute Health Hazard

SECTION 312: Acute Health Hazard

SECTION 313: Not listed

CERCLA: This product is not reportable.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D002 (Corrosive) (40 CFR 261.22)

**SECTION XVI. ADDITIONAL INFORMATION**

NONE.....

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

**Regulatory Standards:** DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.  
SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)-  
INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP)  
REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY  
& HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.