



**ATLANTA WAREHOUSE**

3939 Royal Drive, Suite 139  
Kennesaw, GA 30144

**UTAH WAREHOUSE**

647 West Billinis Road, Unit 1  
Salt Lake City, Utah 84119

## SAFETY DATA SHEET

Product Name : ChemWorld Metal Safe

Date Issued : October 21, 2016

### SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ChemWorld Metal Safe  
**Formula :** Multi-component mixture

**Chemical Synonym / C# :** c122AM  
**Chemical Family:** Alkaline detergent

**Supplier :** ChemWorld.com 885 Woodstock Road, Ste 430-111 Rosewell, GA 30075  
**Information Telephone :** (800)658-7716 or **Emergency Telephone :** (855) 347-8203

### SECTION 2 : HAZARD IDENTIFICATION

**Form :** Powder **Color :** White

**Emergency Overview :** Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire SDS for a more thorough evaluation of the hazards.

**OSHA Hazard Communication Standard**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**GHS Classification :**

Corrosive to metals (Category 1)

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

**Signal Word :** Danger



Corrosion,



Exclamation Mark

**GHS Hazard Pictograms :**

**Hazard Statements :**

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

**Precautionary Statements :**

P261: Avoid breathing dust.

P262: Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

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## Precautionary Statements, continued :

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards which do not result in classification :

None known. See Section 11 for Potential Health Hazards

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Sodium Metasilicate	6834-92-0	30 - 50
Sodium Carbonate	497-19-8	30 - 50
Sodium Tripolyphosphate	7758-29-4	10 - 30

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

## SECTION 4 : FIRST AID MEASURES

**Eye Contact:** Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Inhalation:** Move victim to fresh air. If irritation persists, seek medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water or milk, then drink dilute vinegar, lemon juice, orange juice, or soda if conscious. Consult a physician.

## SECTION 5 : FIRE FIGHTING MEASURES

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Fire Fighting Procedures:** Wear self contained breathing apparatus for fire fighting if necessary.

**Unusual Fire and Explosion Hazards:** Not applicable. Inorganic powder or granules. Non-combustible.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Personal & environmental precautions :** Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling. Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**Steps to be taken in case material is released or spilled:** Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

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## SECTION 7 : HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid generation of dust. Emergency shower and eye wash facilities should be readily available.

**Storage Requirements:** Keep container tightly closed and dry. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Unsuitable containers: Aluminium

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Sodium Metasilicate	-	-
Sodium Carbonate	-	-
Sodium Tripolyphosphate	-	-

### **Engineering measures :**

**Ventilation / Local Exhaust / Mechanical Recommendations:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

### **Personal protective equipment :**

**Respiratory Protection:** Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded.

**Skin Protection:** Wear suitable protective clothing and gloves. PVC or rubber gloves. Wear suitable overalls.

**Eye Protection:** Chemical goggles.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

**Appearance / Odor:** White granular powder, odor nil.

**Water Solubility:** Complete

**pH (1%):** > 11

**Specific Gravity:** N/A

**Boiling Point (°F) :** N/A

**Evaporation Rate(water=1):** N/A

**% Volatile:** N/A

**Vapor Density(air=1) :** N/A

**Vapor Pressure(mmHg):** N/A

**Flash Point :** N/A

**Flash Point Method Used:** N/A

**Flammable Limits:** LEL = N/A UEL = N/A

## SECTION 10 : STABILITY AND REACTIVITY

### **Hazardous Decomposition Products:**

**Chemical Stability:** This product is hygroscopic.

**Conditions to Avoid:** When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

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**Incompatibility with other Substances:** Strong acids, Lead, Tin/tin oxides, Zinc, Aluminium

**Hazardous Polymerization:** Will not occur.

## SECTION 11 : TOXICOLOGICAL INFORMATION

**Potential Health Effects (as Sodium Metasilicate):** Acute: May cause severe irritation to the eyes.

Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract.

Chronic: May cause irritation of the skin, respiratory airways, mucous membranes and eyes.

### **Toxicological Data (as Sodium Metasilicate):**

Acute toxicity

Ingestion Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity.

Oral LD50 (rat) 1152-1349 mg/kg bw

Inhalation Dust is severely irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

Inhalation LC50 (rat) >2.06 g/m<sup>3</sup>

Skin Contact Material will cause chemical burns.

Dermal LD50 (rat) >5000 mg/kg bw

Eye Contact Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

Skin corrosion/irritation: Corrosive to: Skin.

Serious eye damage/irritation: Corrosive to: Eyes.

Sensitisation : Not sensitising. (LLNA)

Mutagenicity : No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity : Components are not listed by IARC, NTP or OSHA as carcinogens.

Reproductive toxicity : No evidence of reproductive toxicity or developmental toxicity.

STOT - single exposure Irritating to respiratory system.

STOT - repeated exposure Not classified. NOAEL oral (rat) 227 mg/kg bw/d

Aspiration hazard : Not classified

Other information: Not applicable.

### **Toxicological Data (as Sodium Carbonate):**

Oral LD50 (rat) = 2800 mg/kg

Dermal LD50 = >2000 mg/kg (rabbit)

Inhalation LC50 (rat, 2 hr) = 2.3 mg/l

### **Toxicological Data ( as Sodium Tripolyphosphate ) :**

Acute Dermal LD50 : Not available

Oral LD50 (rat) = 4100 mg/kg

Inhalation LC50 : Not available

**Carcinogenicity:** This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

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## SECTION 12 : ECOLOGICAL INFORMATION

### **Ecotoxicological Information (as Sodium Metasilicate):**

Fish (Brachydanio rerio) LC50 (96 hour) 210 mg/l

Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700mg/l

### **Environmental Effects:**

**Persistence and Degradation:** Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

**Bioaccumulative potential :** Inorganic. The substance has no potential for bioaccumulation.

**Mobility in soil :** Not applicable.

**Results of PBT and vPvB assessment :** Not classified as PBT or vPvB.

**Other adverse effects :** The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

### **Ecological Information (as Sodium Carbonate) :**

Acute toxicity fishes = 300 mg/l (LC50, 96hr, Lepomis macrochirus)

Acute toxicity invertebrates = 200 - 227 mg/l (EC50, 48hr, Ceriodaphnia sp.)

Toxicity algae and other aquatic plants = 242 mg/l (EC50, 5 days, Algae)

**Persistence and degradability:** N/A

**Bioaccumulative potential:** Low potential for bioaccumulation (Log Kow < 4)

**Ecological Information (as Sodium Tripolyphosphate) :** No data.

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

**Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded?** No

**If yes, the RCRA ID number is :** N/A

## SECTION 14 : TRANSPORTATION INFORMATION

**Transportation Emergency Telephone Number:** 3E 24 hour number : (855) 347-8203

**UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information:**

**UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(contains Sodium Metasilicate), 8, PGI,  
(CORROSIVE, ERG#154)**

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## SECTION 15 : REGULATORY INFORMATION

### US FEDERAL REGULATIONS :

**TSCA (Toxic Substances Control Act) Status :** The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a) :**

<u>Component</u>	<u>RQ (lbs)</u>
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none

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

**SARA 302 Components - 40 CFR 355 Appendix A**

<u>Section 302 Component(s)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
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None

**SARA 311/312 Classification - 40 CFR 370.2 :**

(as Sodium Metasilicate) Acute Health Hazard

**SARA 313 Components - 40 CFR 372.65:**

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
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None

### INTERNATIONAL REGULATIONS :

**Sodium Carbonate** is listed on the following inventories : EC, Japan, Australia, Korea, Canada (DSL), Philippines.

### STATE REGULATIONS :

**California Safe Drinking Water Act (Prop. 65) Listing :** None

**Other Regulations / Legislation which apply to this product:**

**Sodium Metasilicate** (CAS# 6834-92-0 ) is listed on the following inventories : Pennsylvania Right To Know, New Jersey Right To Know

## SECTION 16 : OTHER INFORMATION

**NFPA Rating :** HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0  
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

**Revision Date :** 10/21/2016

Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.