

SAFETY DATA SHEET

Product Name : ChemWorld Metal Safe LQ

Date Issued : June 1, 2015

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

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

Chemical Synonym / C# : c329, ASCC#007
Chemical Family: Alkaline detergent

Supplier : ChemWorld.com 885 Woodstock Road, STE 430-111 Rosewell, GA 30075
Information Telephone : (800) 658-7716 or **Emergency Telephone :** 1-855-347-8203

SECTION 2 : HAZARD IDENTIFICATION

Form : Liquid **Color :** Clear, amber

Emergency Overview : Solutions are eye and skin irritants, and prolonged or repeated contact may cause irritation. 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 has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

GHS Classification :

Severe Eye Irritation (Category 2A Irritant)
Skin Irritation (Category 2 Irritant)

Label Elements :

Signal Word : Warning



GHS Hazard Pictograms : Irritation

Hazard Statements :

H303: May be harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary Statements :

P102: Keep out of reach of children.
P261: Avoid breathing dust/fume/gas/mist/vapors/ spray.
P281: Use personal protective equipment as required.
P301+ 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + 312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: IF eye irritation persists: Get medical advice/attention.
P302 + 351 IF ON SKIN: Rinse cautiously with water for several minutes.
P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/attention.

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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)
Tetra Potassium Pyrophosphate	7320-34-5	5 - 15
Potassium Hydroxide	1310-58-3	<1
Sodium Metasilicate	6834-92-0	5 - 10
Sodium Tripolyphosphate	7758-29-4	1 - 5

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: Immediately flush contacted area repeatedly with water for at least 15 minutes. If irritation persists, contact a physician for treatment. Clean contaminated clothing before reuse.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove 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 1-2 glasses of water to drink, if conscious and alert.

Notes to physician : treat symptomatically. No specific antidote available. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 : FIRE FIGHTING MEASURES

Extinguishing Media: None required.

Fire Fighting Procedures: Use caution when fighting any fire. Adequate respiratory protection is essential.

Unusual Fire and Explosion Hazards: None known.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions : Use suitable protective equipment (See Section 8 : "Exposure controls / personal protection").

Steps to be taken in case material is released or spilled:

Small Spill: Absorb with suitable absorbent such as sand or vermiculite.

Large Spill: Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

Solid spill: Sweep up and return to container.

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SECTION 7 : HANDLING AND STORAGE

Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, liquids may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. Handle with care. Wash thoroughly after handling.

Storage Requirements: Keep container closed. Store in an area that is dry and well-ventilated, away from incompatible materials (see section 10). For Industrial and commercial use only!

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m ³) TWA	ACGIH TLV (mg/m ³) STEL
Tetra Potassium Pyrophosphate	-	-
Potassium Hydroxide	-	2 (ceiling)
Sodium Metasilicate	-	-
Sodium Tripolyphosphate	-	-

Engineering measures :

Ventilation / Local Exhaust : General room ventilation.

Ventilation / Mechanical Recommendations: None required.

Personal protective equipment :

Respiratory Protection: Not required for properly ventilated areas.

Skin Protection: Vinyl or rubber protective gloves.

Eye Protection: Goggles or face shield.

Other Protective Equipment: Vinyl apron (optional).

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear, amber liquid, odor nil.

Water Solubility: complete

Specific Gravity: 1.18 - 1.20

Evaporation Rate(water=1): N/A

Vapor Density(air=1) : N/A

Flash Point : None

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

pH (1%): 10.5 - 11.5

Boiling Point (°F) : 212+

% Volatile: N/A

Vapor Pressure(mmHg): N/A

Flash Point Method Used: N/A

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: None.

Chemical Stability: Stable.

Conditions to Avoid: Avoid contact with hot solutions, splashing solutions, prolonged skin contact.

Incompatibility with other Substances: Acids, oxidizers

Hazardous Polymerization: Will not occur.

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SECTION 11 : TOXICOLOGICAL INFORMATION

Potential Health Hazards (as mild alkaline or detergent blend) :

Inhalation: Inhalation of mists or dusts may cause irritation to respiratory tract. Symptoms from excessive inhalation or of concentrated product may include gasping or coughing and difficulty breathing. Excessive contact may cause damage to the nasal septum.

Skin Contact: May cause mild irritation. Concentrated or prolonged contact may cause irritation with redness and blistering.

Eye Contact: May cause mild irritation. Concentrated or prolonged contact may cause conjunctival edema and corneal destruction.

Ingestion: Swallowing may produce gastrointestinal upset. Symptoms from ingestion of large doses may include severe abdominal pain, vomiting, and diarrhea.

Toxicological Data: Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

Toxicological Data (as Tetra Potassium Pyrophosphate): No data found.

Toxicological Data (as Potassium Hydroxide):

Oral LD50 (rat) : 273 mg/kg

Information on likely routes of exposure

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : Vapors and mist may irritate throat and respiratory system and cause coughing.

Skin contact : Causes skin burns.

Eye contact : Causes eye burns.

Symptoms related to the physical, chemical and toxicological characteristics : Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.

Acute toxicity : Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/eye irritation : Causes severe eye burns. Causes serious eye damage.

Respiratory sensitization : No data available.

Skin sensitization : No data available.

Germ cell mutagenicity : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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

Reproductive toxicity : No data available.

Specific target organ toxicity - single exposure : No data available.

Specific target organ toxicity - repeated exposure : No data available.

Toxicological Data (as Sodium Metasilicate):

Acute Oral LD50 (rat) = 800 mg/kg

Primary Skin Irritation : (rabbit, 24 hr) = 250 mg (severe)

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

Exotoxicological Information: No data found for the blended product.

Exotoxicological Information (as Tetra Potassium Pyrophosphate): No data found.

Exotoxicological Information (as Potassium Hydroxide):

Aquatic Toxicity : LC50, 96 hours (Western mosquitofish, *Gambusia affinis*) = 80 mg/l

General : Can cause damage to vegetation. Toxicity is primarily associated with pH. Toxic to aquatic life.

Environmental Effects : Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

Persistence and Degradation : Degrades readily by reacting with natural carbon dioxide in the air. Does not bioaccumulate.

Mobility in Soil : Not available

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Exotoxicological Information (as Sodium Metasilicate):

Fish: LC50 (96 hr) (mosquitofish) = 530 mg/l

Invertebrates : LC50 (48 hr) (water flea) = 113 mg/l

LC50 (96 hr) (scud) = 160 mg/l

LC50 (28 day) (polychaete) = 210-250 mg/l

Wildlife LD50 (oral) (mouse) = 770 mg/kg

Environmental Fate (as Sodium Metasilicate): Inorganic, not subject to biodegradation. This compound is alkaline and may raise the pH of the surface waters with low buffering capacity if spilled. Due caution should be exercised to prevent the accidental release of this material to the environment.

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

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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: NOT REGULATED BY DOT (mildly alkaline cleaning liquid NOIBN)

SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

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

CERCLA RQ - 40CFR302.4(a) :

<u>Component</u>	<u>RQ (lbs)</u>
POTASSIUM HYDROXIDE	1000

SARA 302 Components - 40 CFR 355 Appendix A : none

SARA 311/312 Classification - 40 CFR 370.2 : meets the following categories :
Immediate, Delayed (as Potassium Hydroxide)

SARA 313 Components - 40 CFR 372.65: This product does not contain any chemicals subject to reporting requirements.

INTERNATIONAL REGULATIONS :

Inventory Status (as Potassium Hydroxide):

Potassium Hydroxide is on the following lists : DSL (Canada)

STATE REGULATIONS :

Other Regulations / Legislation which apply to this product:

(as Potassium Hydroxide) : Pennsylvania Right-to-Know, New Jersey Right-to-Know.

(as Sodium Tripolyphosphate) : Massachusetts Substance List, New Jersey Right to Know Hazardous Substance List, Pennsylvania Hazardous Substance List

SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Revision Date : 6/1/2015

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.