# SAFETY DATA SHEET



DATE ISSUED : 8/5/2016 SDS REF. No : W-303-A

# W-303-A ACID METAL CONDITIONER

## **1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** W-303-A ACID METAL CONDITIONER

**PRODUCT CODE:** W-303-A **PRODUCT USE:** 

Industrial Waterborne Solution

## MANUFACTURER

Cardinal Industrial Finishes 1329 Potrero Ave

24 HR. EMERGENCY TELEPHONE NUMBER CHEMTREC (US Transportation): (800)424-9300 CHEMTREC (International : 1(202)483-7616 **Transportation**) **WEB: WWW.CARDINALPAINT.COM** 

S. El Monte, CA, 626 444-9274

## 2. HAZARDS IDENTIFICATION

## PICTOGRAMS



SIGNAL WORD : DANGER

#### **HAZARD STATEMENTS :**

H302 Harmful is swallowed.

H320 Causes serious eye irritation.

#### **PRECAUTIONARY STATEMENTS :**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P264 Wash thoroughly after handling.

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P405 Store locked up.

P501 Dispose of in accordance with Local, Regional, State, Federal, and International Regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	CAS Number
Phosphoric Acid	10% - 15%	7664-38-2
Ethylene glycol mono butyl ether	1% - 5%	111-76-2

## **4. FIRST AID MEASURES**

#### Description of first aid measures.

**EYES CONTACT :** Flush with large quantities of water for 15 to 30 minutes. Remove contact lenses. Keep eyes wide open while rising. If eye irritation persists: Get medical attention.

**SKIN CONTACT :** Wash exposed area with mild soap and water for 15 to 30 minutes. Remove contaminated clothing. Repeated exposure may cause dryness or cracking.

**INGESTION :** Rinse mouth. Do NOT induce vomiting. Keep victim warm and seek immediate attention.

**INHALATION :** Remove to fresh air and keep in a position comfortable to breath. Call a doctor/physician if you feel unwell. Get medical attention.

**Most important symptoms and effects, both acute and delayed.** Symptoms/injuries: Eye irritation Symptoms/injuries after inhalation: May cause drowsiness or dizziness.

Symptoms/injuries after eye contact: Cause serious eye irritation. Symptoms/injuries after ingestion: Ingestion may cause nausea, vomiting and diarrhea. Indication of any immediate medical attention and special treatment needed. If medical advise is needed, have product container or label on hand.

## **5. FIRE FIGHTING MEASURES**

**SUITABLE EXTINGUISHING MEDIA :** In the event of a fire, use specifically suitable extinguishing agents. Suitable extinguishing media: Foam, alcohol resistant foam, CO2, water fog. Unsuitable extinguishing media: Do not use heavy water stream. A heavy water stream my spread burning liquid.

**FIRE FIGHTING PROCEDURE :** Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment. Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure modes.

**UNUSUAL FIRE AND EXPLOSION HAZARD :** Fire hazard: Highly flammable/liquid or vapor. Explosive hazard: May form flammable/explosive vapor-air mixture.

## 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES :

General measures: Remove ignition sources. Use special care to avoid static electric charges. No smoking.

#### FOR NON-EMERGENCY PERSONNEL :

For non-Emergency procedures: Evacuate unnecessary personnel.

## FOR EMERGENCY RESPONDERS :

Equip cleanup crew with proper protection. Avoid breathing fume, vapors.

#### **ENVIRONMENTAL PRECAUTIONS :**

Prevent entry to sewers and public waters.

#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP :

Collect damaged aerosols and use absorbent and/or inert material, then place in suitable container.

## 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING :** Additional hazards when processed: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when you are leaving work. Provide good ventilation in process area to prevent formation of vapor. No smoking. Use only non-sparking tools. Use outdoors or in a well ventilated area. Avoid breathing fume, vapors. Hygiene measures: Wash Skin thoroughly after handling.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES :** Storage conditions: Store in a dry, cool and well-ventilated place away from: Heat sources. Direct sunlight.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Source of ignition. Direct sunlight. Heat Sources.

#### 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

Ethylene glycol mono butyl ether(111-76-2)				
USA ACGIH	ACGIH TWA (ppm)	20 ppm		
USA NIOSH	NIOSH REL (ppm)	5 ppm		
USA OSHA	OSHA PO TWA (ppm)	25 ppm		
USA OSHA	OSHA TABLE Z-1 TWA (mg/m3)	50 ppm, 240 mg/m3		
Phosphoric Acid(7664-38-2)	Phosphoric Acid(7664-38-2)			
USA ACGIH	ACGIH (TLV) STEL	3 mg/m3		
USA ACGIH	ACGIH (TLV) TWA	1 mg/m3		
USA NIOSH	NIOSH (TWA) REL	1 mg/m3		
USA NIOSH	NIOSH (TWA) ST	3 mg/m3		
USA OSHA	OSHA (TWA) Table Z-1	1 mg/m3		
Polyethylene glycol(25322-68-3)				
USA (WEEL) TWA	USA (WEEL) TWA	10 mg/m3		

#### PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION :** If TLV of the product or any component is exceeded, a NIOSH approved dust respirator is advised in absence of environmental control. OSHA Regulations also permit other NIOSH dust respirators under specified conditions. (See your Safety Equipment Supplier) Engineering or administrative controls should be implemented to reduce exposure.

**HAND PROTECTION REMARKS :** The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**EYES PROTECTION :** Eye wash bottle with pure water. Tightly fitting safety goggles.

Where face-shield and protective suit for abnormal processing problems.

**SKIN AND BODY PROTECTION :** Wear impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**WORK HYGIENIC PRACTICES:** When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid	
Color	:	Various colors depending on the pigmentation.	
Odor	:	Characteristic. Sweet. Mint like.	
Odor threshold	:	No data available.	
Ph	:	N/A – See Technical Data Sheet	
Evaporation rate	:	Slower Than Ether	
Melting point	:	-94.7 C (-138.46 F)	
Freezing point	:	No data available.	
Boiling point	:	232.0 deg F TO 334.0 deg F	
Flash point	:	143.00 deg F deg F	
Lower explosion limit	:	1.1	
Upper explosion limit	:	10.6	
Vapor pressure	:	185 mm Hg	
Vapor density	:	Heavier than air	
Relative density	:	No data available.	
Density	:	8.6863	
Solubility	:	No data available.	
Partion coefficient: n-	:	No data available.	
octanol/water			
Autoignition temperature	:	No data available.	
Decomposition temperature	:	No data available.	

## **10. STABILITY AND REACTIVITY**

**REACTIVITY :** No dangerous reaction known under conditions of normal use.

**CHEMICAL STABILITY :** Stable under normal conditions.

**CONDITIONS TO AVOID** : Extremely high temperatures, poor ventilation and excessive aging.

**INCOMPATIBLE MATERIALS :** Avoid contact with strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## **11. TOXICOLOGICAL INFORMATION**

Ethylene glycol mono bu	tyl ether(111-76-2)		
Aspiration toxicity	Remarks: No data available.		
Carcinogenicity	Species mouse, Application Route: Inhalation, Exposure time 2 yr, Activity duration: 6 h, Frequency of Treatment: 5 days/week, NAOEL: 125 ppm Result: Limited evidence of carcinogenic effects with no relevance to humans., Carcinogenicity-Assement: Not evidence of carcinogenicity in animal studies		
Further information	Product Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,		
Germ cell mutagenicity	Genotoxicity in vitro: Test Type: Mammalian cell gene mutation assay; Test species: Chinese hamster (CHO), Metabolic activation: with and without metabolic activation. Result: negative., Genotoxicity in vivo: Test Type: In vivo micronucleus test., Test species:: mouse (male), application Route: Intraperitoneal, Result: negative., Germ cell mutagenicity Assessment: Tests on bacterial or mammalian did not show mutagenic effects.		
LC50 (rat) inhalation	Acute inhalation toxicity: 500 ppm, Exposure time: 4 h; Assessment: the component/mixture is moderately toxic after short term inhalation.		
LC50 (rat) Oral	Acute toxicity estimate: 500 mg/kg; Method: Expert judgment.; Assessment: the component/mixture is moderately toxic after single ingestion.		
LD50 (rat) dermal	Acute toxicity estimate: 1,1000 mg/kg; Method: Expert judgment; Assessment: the component/mixture is moderately toxic after single contact with skin.		
Repeated dose toxicity	Species: rat NOAEL: 30, Application Route: Inhalation Exposure time: 14 wk Number of exposures: 6 h/d, 5 d/wk.		
Reproductive toxicity	Effects on fertility : Test Type: Two-generation study Species: mouse Application Route: oral Fertility: NOAEL: 720 mg/kg body weight Symptoms: Reduced fertility Result: Reduced fertility at maternally toxic doses Effects on fetal development : Test Type: Embryo-fetal development Species: rat Application Route: Inhalation Duration of Single Treatment: 10 d Frequency of Treatment: 6 hr/day Developmental Toxicity: Lowest observed adverse effect level: 100 ppm Result: Developmental toxicity occurred at maternal toxicity dose levels Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments		
Respiratory or skin sensitsation	Test Type: Maximization test, Species guinea pig, Result: Did not cause sensitization on laboratory animals.		
Serious eye damage/ eye irritation	Species rabbit, Exposure time 24 h, Result: Irritating to eyes.		
Skin corrosion/irritation	Remarks: Moderate skin irritation in susceptible persons., Species rabbit, Exposure time 24 h, Result: Mild skin irritation		
STOT - repeated exposure	No data available.		
STOT - single exposure	No data available.		
Phosphoric Acid(7664-38	3-2)		
Additional Information	RTECS: TB6300000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, May cause cyanosis. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence.		
Aspiration hazard	No data available.		
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
Germ cell mutagenicity	No data available.		
Inhalation: LD50 Dermal - Rabbit	No data available. 2,740 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral:		
LD50 Oral - Rat - Acute toxicity	Excitement. No data available. > 5,000 mg/kg, (OECD Test Guideline 423),		
Reproductive toxicity	No data available.		
Respiratory or skin sensitization	No data available.		
Serious eye damage/eye irritation	Eyes - Rabbit Result: Corrosive		

Skin	Skin - Rabbit Result: Causes burns 24 h
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	No data available.
Specific target organ toxicity - single	No data available.
, 5	
exposure	phonyl other(0026-10-5)
Additional Information	phenyl ether(9036-19-5) RTECS: Not available Ingestion of large amounts may cause:, Nausea, Diarrhea
Additional Information Aspiration hazard	No data available.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified
carcinogenicity	as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this
	product present at levels greater than or equal to 0.1% is identified as a known or anticipated
	carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal
	to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Germ cell mutagenicity	No data available.
Inhalation	No data available.
LD50 Dermal - Rabbit	>16,000 mg/kg, Dermal - Rabbit
LD50 Oral - Rat - Acute	>16,000 mg/kg, Oral - Rat
Toxicity	
Reproductive toxicity	Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity.
Respiratory or skin	No data available.
sensitsation	
Serious eye	Mild eye irritation.
damage/eye irritation	
Skin	Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin
corrosion/irritation	resulting in desiccation of the skin.
Specific target organ	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
toxicity - repeated	
exposure	
Specific target organ	The substance or mixture is not classified as specific target organ toxicant, single exposure.
toxicity - single	
exposure	
Polyethylene glycol(2532	
Additional Information	RTECS: Not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Achiration bazard	No data available.
Aspiration hazard Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified
Carcinogenicity	as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this
	product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal
	to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this
	product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
Dermal	No data available.
Germ cell mutagenicity	No data available.
Inhalation	No data available.
LD50 Oral - Rat - Acute	>15,000 mg/kg, Oral - Rat
Toxicity	
Reproductive toxicity	No data available.
Respiratory or skin	No data available.
sensitsation	
Serious eye	Eyes - Rabbit Result: Mild eye irritation - 24 h
damage/eye irritation	
Skin	Skin - Rabbit Result: Mild skin irritation - 24 h
corrosion/irritation	
Specific target organ	No data available.
toxicity - repeated	
exposure	
Specific target organ	No data available.
toxicity - single	
exposure	

## **12. ECOLOGICAL INFORMATION**

Ethylene glycol mono butyl ether(111-76-2)BioaccumulativePartition coefficient: n-octanol/water: log Pow: 0.83

potential	
EC50 (Algae)	911 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: no
EC50 (Daphnia)	1,800 mg/l(48 h; Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: no
LC50 (fish)	1,474 mg/l Pimephales promelas (Fathead minnow))Exposure time: 96 h Test Type: static test, Method: OECD Test Guideline 203 GLP: no
Mobility in soil	No data available
Other adverse effects	No data available
Persistence and degradability	Aerobic Inoculum: Activated sludge, domestic, adaption not specified, Result: Readily biodegradable. Biodegradation: 90.4 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: no
Product	Regulation: 40CFR Protection of Environment, Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class 1 Substances:
Phosphoric Acid(7664-38	
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	May be harmful to aquatic organisms due to the shift of the pH.
Persistence and degradability	No data available.
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	
Toxicity	No data available.
Polyethylene glycol octyl	phenyl ether(9036-19-5)
Bioaccumulative potential	No data available.
EC50 - Daphnia magna - Toxicity to daphnia and other aquatic invertebrates	2,500 mg/l - 48 h, Daphnia magna (Water flea)
IC50 - Bacteria - Toxicity to bacteria	>5,000 mg/l - 16 h, Bacteria
LC50 - Pimephales promelas - Toxicity to fish	440 mg/l - 96 h, Pimephales promelas (fathead minnow)
Mobility in soil	No data available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.
Persistence and degradability	Biodegradability Result: - According to the results of tests of biodegradability this product is not readily biodegradable.
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Polyethylene glycol(2532	22-68-3)
6 Other adverse effects	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Persistence and degradability	No data available.
Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
vPvB assessment	

## 13. DISPOSAL CONSIDERATIONS WASTE TREATMENT METHODS

## **GENERAL INFORMATION :** No data available.

**DISPOSAL METHOD:** Dispose of waste and residues in accordance with Local, State, and Federal Regulations. Mix with compatible chemical which is less flammable and incenerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind or weld or near this container.

## **14. TRANSPORT INFORMATION**

## \*CHECK WITH YOUR CARRIER FOR ADDITIONAL RESTRICTIONS THAT MAY APPLY.

USDOT GROUND DOT (DEPARTMENT OF TRANSPORTATION) PROPER SHIPPING NAME (DOT) : Corrosive Liquid, N.O.S, Phosphoric Acid HAZARDS CLASS : 8 UN/NA NUMBER : 1760 PACKING GROUP : III EMERGENCY RESPONSE GUIDE (ERG) : Not Applicable

IATA (AIR) DOT (INTERNATIONAL AIR TRANSPORTATION ASSOCIATION) PROPER SHIPPING NAME : Not Regulated HAZARDS CLASS : Not Applicable UN/NA NUMBER : Not Applicable PACKING GROUP : Not Applicable EMERGENCY RESPONSE GUIDE (ERG) : Not Applicable

IMDG (OCEAN) PROPER SHIPPING NAME : Not Regulated HAZARDS CLASS : Not Applicable UN/NA NUMBER : Not Applicable PACKING GROUP : Not Applicable EMERGENCY RESPONSE GUIDE (ERG) : Not Applicable

**MARINE POLLUTANT :** No **SPECIAL PRECAUTIONS :** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P235 Keep cool.

#### **15. REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS All ingredients in Section #3 are TSCA (Toxic Substance Control Act) listed.

**OSHA HAZARDS :** Flammable liquid, Moderate skin irritant, Moderate eye irritant, Carcinogen. **EPCRA - Emergency CERCLA REPORTABLE QUANTITY** 

This product contains:	Chemical CAS#
Ethylene glycol mono butyl ether	111-76-2

SARA 304 Extremely Hazardous Substances Reportable Quantity : This material does not contain any components with a section 304 EHS RQ. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA 311/312 Hazards : Fire Hazard, Acute Health Hazard, Chronic Health Hazard SARA 313 :

This product contains:	Chemical CAS#
Phosphoric Acid	7664-38-2
Ethylene glycol mono butyl ether	111-76-2

CLEAN AIR ACT :

#### **INTERNATIONAL REGULATIONS**

#### CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008 (CLP) :

Acute Toxicity Oral, Cat. 4; H302 Eye Irrit. Cat., 2A; H320

## NATIONAL REGULATIONS

# Indicates a chemical listed by IARC as a possible carcinogen.

#### STATE REGULATIONS

#### **CALIFORNIA PROPOSITION 65**

\*This product contains (a) chemical (s) known to the State of California to cause cancer.

#This product contains (a) chemical (s) known to the State of California to be carcinogenic.

+This product contains (a) chemical (s) known to the State of California to cause birth defects or other reproductive harm.

## **Massachusetts Right to Know**

This product contains	Chemical CAS#
Phosphoric Acid	7664-38-2
Ethylene glycol mono butyl ether	111-76-2

## Pennsylvania Right to Know

This product contains	Chemical CAS#
Phosphoric Acid	7664-38-2
Water	7732-18-5
Ethylene glycol mono butyl ether	111-76-2
Polyethylene glycol octylphenyl ether	9036-19-5
Polyethylene glycol	25322-68-3

## New Jersey Right to Know

This product contains	Chemical CAS#
Phosphoric Acid	7664-38-2
Water	7732-18-5
Ethylene glycol mono butyl ether	111-76-2
Polyethylene glycol octylphenyl ether	9036-19-5
Polyethylene glycol	25322-68-3

## **16. OTHER INFORMATION**

## **Other Product Information**

% Volatile by Volume: 93.16 % Solids by volume: 6.84 % Exempt by Volume: 89.98

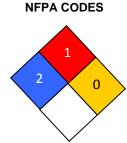
% Volatile by Weight: 89.16 % Solids by Weight: 10.84 % Exempt by Weight: 86.42

## **VOC CONTENT:**

Excluding Exempt VOC: 285 Including Exempt VOC: 29

#### **HMIS RATING**

Health :	2*
Flammability :	1
Reactivity :	0
Personal Protection :	Н



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