

Section 1 - Identification

Product Name: Industrial Metal Prep (4008)

Product Use: Designed to clean, de-rust and prepare metal surfaces prior to further processing. When properly used, it will act as a temporary rust inhibitor.

Tidal Washers supplied by Ecolink
PO Box 9
Tucker, GA 30085
www.ecolink.com

Emergency Phone: 800-535-5053

Section 2 - Hazards Identification

GHS Ratings:

Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5

GHS Hazards

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician if you feel unwell after exposure of this product
P321	Specific treatment (see First Aid below or label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Call a POISON CENTER or doctor/physician. 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 continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up
P501	Dispose of contents/container in conformance with State, Local, and Federal regulations.

Signal Word: Danger



Section 3 - Composition, Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Phosphoric Acid	7664-38-2	10.00% - 20.00%
1-Methoxy-2-propanol, mixture	107-98-2	1.00% - 5.00%
propan-2-ol	67-63-0	1.00% - 5.00%
Caustic Potash	1310-58-3	4.00%

Section 4 - First Aid Measures

After inhalation:

Take affected persons into fresh air and keep quiet. Supply fresh air. Call a doctor immediately

After eye contact: Rinse opened eye for several minutes under running water. Call a doctor immediately.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Call a doctor immediately.

After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately. NOTE: Never give an unconscious person anything to drink.

Information for doctor:

Most important symptoms and effects, both acute and delayed: Causes severe skin burns and eye damage.

Gastric or intestinal disorders · Indication of any immediate medical attention and special treatment needed Medical supervision for at least 48 hours.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL: 2.00

UEL: 12.00

The product is not flammable

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

Hazardous Decomposition:

Phosphorous Oxides

Advice for firefighters Protective equipment: Wear self-contained respiratory protective device.

Wear fully protective suit. Additional information Cool endangered receptacles with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Mount respiratory protective device.

Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material.

Use neutralizing agent. Dispose contaminated material as waste according to Section 13. Ensure adequate ventilation.

Section 7 - Handling & Storage

Precautions for safe handling: Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. When diluting always pour product into water and not vice versa.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities: Store only in the original receptacle. Use polyolefine receptacles. Provide acid-resistant floor.

Suitable material for receptacles and pipes: Stainless steel.

Information about storage in one common storage facility: Store away from reducing agents. Store away from metals. Do not store together with alkalis (caustic solutions). Do not store together with organic materials.

Further information about storage conditions: Keep container tightly sealed.

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Phosphoric Acid 7664-38-2	TWA-8hrs: 1 mg/m ³ STEL-15min.:2mg/m ³	Not Established	Not Established
1-Methoxy-2-propanol, mixture 107-98-2	Not Established	TWA: 50 ppm STEL: 100 ppm	Not Established
propan-2-ol 67-63-0	TWA: 400 ppm TWA: 980 mg/m ³	= 400 ppm STEL TWA: 200 ppm	Not Established
Caustic Potash 1310-58-3	PEL Ceiling 2mg/m ³	Ceiling 2mg/m ³	Not Established

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Do not eat or drink while working. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Limitation and supervision of exposure into the environment: Avoid discharging of Hydrochloric / Phosphoric acid solutions into municipal wastewater, surface water or soils, when such discharges are expected to cause significant pH changes.

Risk management measures: Regular control of the pH value previous to or during discharges into open waters is required. Discharges should be carried out as to minimize pH changes in receiving surface waters. In general most aquatic organisms can tolerate pH values in the range of 6-9.

Eye protection: Tightly sealed goggles

Body protection: Acid resistant protective clothing, Boots

Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. · Material of gloves Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Natural rubber, NR Chloroprene rubber, CR Neoprene gloves

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Not suitable are gloves made of the following materials: Leather gloves

Section 9 - Physical & Chemical Properties

Appearance Clear Liquid Color Red	pH 2 - 3 Specific Gravity 1.07 - 1.08
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Section 10 - Stability & Reactivity

STABLE

INCOMPATIBILITIES:

Avoid contact with strong oxidizing agents. This material attacks some plastics, rubbers, and coatings.

Strong Oxidizing agents, Strong Acids, Strong Bases

Avoid contact with acids. Avoid strong acids and oxidizers. Never add water to this product.
Avoid contact with Al, Zn, Sn, Cu and Al, Zn, Sn, Cu alloys. Contact with metals causes formation of flammable hydrogen gas. Avoid ether. Avoid water solutions. Avoid organic materials.

Materials To Avoid

Alkalines, metal oxides, metals, metal alloys, and organic matters, fluorine, strong reducing agents, bases, sulphur trioxide, phosphorus pentoxide.

DECOMPOSITION:

In the event of fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

Carbon Monoxide, Carbon dioxide

None Known

Oxides of Sodium, Oxides of Phosphorus

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Component Toxicity

7664-38-2	Phosphoric Acid Oral LD50: 2,040 mg/kg (RAT) Dermal LD50: 3,653 mg/kg (Rabbit)
107-98-2	1-Methoxy-2-propanol, mixture Oral LD50: 4,016 mg/kg (Rat) Dermal LD50: 2,050 mg/kg (Rabbit) Inhalation LC50: 26 mg/L (Rat)

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

Section 12 - Ecological Information

Do not discharge into waterways. The strong lowering of pH can destroy organisms.

Component Ecotoxicity

Phosphoric Acid	Acute Fish Toxicity Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intake.
propan-2-ol	Toxicity to fish LC50 Pimephales promelas: > 6,000 mg/l; 96 h; (literature value) Biodegradability Readily biodegradable.

Section 13 - Disposal Considerations

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Uncleaned packaging Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made in accordance with Local Authority requirements.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

Section 14 - Transportation Information

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid)	UN3264	PGIII	8

Section 15 - Regulatory Information

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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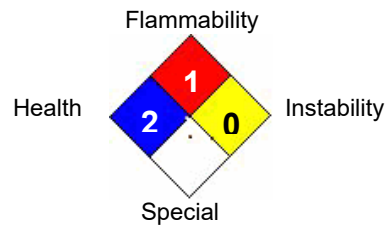
Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="2"/>
FLAMMABILITY	<input type="text" value="1"/>
PHYSICAL HAZARD	<input type="text" value="1"/>
PERSONAL PROTECTION	<input type="text" value="D"/>

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision

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