

## ENE ELECTROPOLISH #5

### 1 IDENTIFICATION

Product Code : 2380026

Recommended use of the chemical and restrictions on use: Industrial applications

Hubbard-Hall Inc.

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Emergency Phone Number

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### 2 HAZARDS IDENTIFICATION

Signal Word: DANGER

Hazard Category: Acute Toxicity-Inhalation Hazard Category 2

Skin Corrosion/Irritation Hazard Category 1A

Eye Damage/Irritation Hazard Category 1

Acute Aquatic Toxicity-Category 3

Chronic Aquatic Toxicity- Category 3

Carcinogenicity Hazard Category 1A

Specific Target Organ Toxicity (Repeated Exposure) Hazard Category 2

Corrosive to Metals Hazard Category 1

Hazard Statements: Fatal if inhaled.

May cause damage to teeth through prolonged or repeated exposure via inhalation.

Causes severe skin burns and eye damage.

May cause cancer.

Harmful to aquatic life with long lasting effects

May be corrosive to metals.

Prevention: Do not breathe dust, fumes, gas, mist, vapors or spray.

Use only outdoors or in well ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wash skin thoroughly after handling.

Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood.

Keep only in original container.

Avoid releases to the environment

Response: If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

Specific treatment - refer to poison center or doctor for advice.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

If exposed or concerned: Get medical advice/attention.

Absorb spillage to prevent material damage.

Storage: Store locked up.

Store in well ventilated place. Keep container tightly closed.

Store in corrosive resistant high density polyethylene container.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Sulfuric Acid	Oil of Vitriol	7664-93-9	<20%
Phosphoric Acid	-	7664-38-2	<80%

### 4 FIRST AID

After Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

After Skin Contact:

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice.

After Eye Contact:

Immediately flush the eyes with large quantities of running water for 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyelids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue rinsing for an additional 15 minutes if the physician is not available.

After Ingestion:

If swallowed: Rinse mouth. Do NOT induce vomiting.

### 5 FIRE FIGHTING MEASURES

Suitable and Unsuitable  
extinguishing media:

Avoid contact with water. Use foam, dry chemical or carbon dioxide.

Specific hazards arising from  
the chemical:

Sulfur dioxide may be produced.

Special protective equipment and precautions for firefighter

Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

## 6 ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment & cleaning up:

If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

Neutralize spill with soda ash or lime under good ventilation. For an interior (inside a closed space) spill be aware that the use of Soda Ash, Lime will evolve heat and carbon dioxide thus the need for ventilation.

Avoid release to the environment.

## 7 HANDLING AND STORAGE

Precautions for safe handling:

Use ventilation sufficient to keep personal exposure below the OSHA Permissible Exposure Limits (PEL) and or the ACGIH Threshold Limit Value (TLV) Time Weighted Average (TWA) exposure limits.

Wear rubber protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

Avoid breathing dust, fumes, gas, mist, vapors and sprays.

Eating, drinking and smoking in the work area is prohibited.

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

Keep only in original container .

Keep container tightly closed.

Conditions for safe storage, inc any incompatibilities:

Store in corrosive resistant container.

Store locked up and away from incompatible chemicals.

Store in cool dry place.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Sulfuric Acid	ACGIH	0.2 mg/m <sup>3</sup>	
Phosphoric Acid	ACGIH	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>

ACGIH - American Control of Governmental Hygenists

OSHA - Occupational Safety and Health Administration

Ventilation:

Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

Respiratory Protection:

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI 788.2 or applicable federal requirements must be followed whenever work place conditions warrant respirator use. NIOSH's Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Protective Gloves:

Acid resistant rubber.

Eye Protection:

Wear chemical safety goggles with face shield.

Other Protective Equipment: Rubber aprons, safety shoes and similar protective clothing.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear amber liquid
Odor:	No odor
Odor Threshold:	N/A
PH:	(5% solution in water)<1
Melting Point/Freezing Point:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	N/A
Evaporation Rate:	N/A
Flammability (solid, gas):	N/A
Upper/Lower flammability or explosive limits:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Relative Density:	1.61-1.63 Complete in water

12 ECOLOGICAL INFORMATION