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Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP-A- LUME Aluminum Cleaner

Product Code 1063

Date of issue 07/12/04 Supersedes 12/19/00

Emergency For MSDS Information:

Telephone Acuity Specialty Products Group, Inc.

Numbers Compliance Services 1-877-I-BUY-ZEP

For Medical Emergency:

INFOTRAC

(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency:

CHEMTREC

(800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

HMIS

ire Hazard

Personal Protection

Reactivity

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Prepared by Compliance Services Group

Acuity Specialty Products Group 1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. C	Composition	, Information	on Ingredients

Name of Hazardous Ingredients	CAS#	% by Weight	Exposure Limits
SULFURIC ACID; oil of vitriol	7664-93-9	10-20	OSHA PEL (United States).
			TWA: 1 mg/m³ Form: Mist
HYDROFLUORIC ACID; hydrogen fluoride;	7664-39-3	5-10	OSHA PEL (United States).
hydrofluoride			TWA: 3 ppm
			ACGIH/OSHA (United States).
DVIOGDVIODIG 4 OVD	7004.00.0	_	STEL: 6 ppm
PHOSPHORIC ACID	7664-38-2	<5	OSHA PEL (United States).
			TWA: 1 mg/m ³
			OSHA / ACGIH (United States). STEL: 3 mg/m ³
ETHYLENE GLYCOL MONOBUTYL ETHER;	111-76-2	<5	ACGIH TLV (United States).
2-butoxyethanol; butyl cellosolve			Skin
			TWA: 20 ppm Form: Vapor
			OSHA PEL (United States).
			Skin
			TWA: 25 ppm Form: Vapor

Section 3. Hazards Identification

Acute Effects Routes of Entry Absorbed through skin. Eye contact. Inhalation.

Ingestion.

Skin Hazardous in case of skin contact (corrosive). Skin contact may produce burns. Contact

results in immediate skin absorption which may cause hypocalcemia (calcium loss) . This effect may be delayed for several hours after exposure. Severe over-exposure by absorption

can result in death. Get immediate medical attention.

Eyes Hazardous in case of eye contact (corrosive). Eye contact can result in corneal damage or

Inhalation Hazardous in case of inhalation. Vapors and aerosol can produce mucous membrane, nose and throat irritation. May cause inflammation and pulmonary edema. May be fatal if

nhaled.

Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach. May cause

Impaired kidney function.

Carcinogenic Effects

Strong inorganic acid mists containing sulfuric acid: Classified Group 1 (Proven for human) by IARC;

Group 1 (Known To Be Human Carcinogen) by NTP

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Chronic Effects

The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated skin exposure can produce local skin destruction, or dermatitis.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and

remove any contact lenses. Cold water may be used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Get immediate medical attention while applying and massaging 2.5% calcium gluconate gel, or while soaking skin with

0.13% zephiran chloride solution.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention immediately.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to

an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention

immediately.

Section 5. Fire Fighting Measures

Flash Point None. Flammable Limits Not applicable.

Flammability Non combustible.

Fire Hazard May emit toxic fumes under fire conditions.

Fire-Fighting ProceduresUse water spray, fog or foam. Fire-fighters should wear positive pressure

self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb

with an inert dry material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use detergent. Finish cleaning by spreading water on the contaminated

surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Do not get in eyes, on skin, or on clothing. Put on appropriate personal protective equipment (see Section 8). Do not

ingest. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly

Protective Clothing (Pictograms)

after handling. Wash contaminated clothing before reusing.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 40°F - 120°F (4.4°C -

49°C). Store away from incompatible materials.

Section 8. Exposure Controls, Personal Protection

Personal Protection
Splash goggles. Face shield.

Body Wear chemical resistant gloves, a chemical resistant suit, and boots.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne

concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is

inadequate.

Eyes

Section 9. Physical and Chemical Properties

Physical StateLiquid.Color Clear. Colorless.pHAcidic.Odor Sour. Acid. (Strong.)

Boiling Point 104.44°C (220°F)Vapor Pressure Not applicable.Specific Gravity1.12 (Water = 1)Vapor Density Not determined.

Solubility Easily soluble in cold water, hot water. Evaporation Rate 1 compared to Water VOC (Consumer) 55 (g/l). (4.9%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products May emit toxic fumes under fire conditions. Hydrogen Fluoride (HF) and sulfur oxides

 $(SO_2, SO_3...)$

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Section 11. Toxicological Information

Toxicity to Animals Sulfuric Acid:

ORAL (LD50): Acute: 2140 mg/kg [Rat.].

Hydrofluoric acid:

VAPOR (LC50): Acute: 1276 ppm 1 hour(s) [Rat].

Phosphoric acid:

ORAL (LD50): Acute: 1530 mg/kg [Rat.].

DERMAL (LD50): Acute: 2740 mg/kg [Rabbit.]. >1260 mg/kg [Rat].

Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat]. 1519 mg/kg [Mouse]. 1414 mg/kg [Guinea

pig].

DERMAL (LD50): Acute: 435 mg/kg [Rabbit]. >2000 mg/kg [Guinea pig].

VAPOR (LC50): Acute: 700 ppm 7 hour(s) [Mouse]. >633 ppm 1 hour(s) [Guinea pig].

>691 ppm 1 hour(s) [Guinea pig].

Section 12. Ecological Information

Ecotoxicity Not available. **Biodegradable/OECD** Not available.

Section 13. Disposal Considerations

Waste Waste must be disposed of in accordance with federal, Waste Stream Code: D002

Information state and local environmental control regulations. Classification: - (Corrosive. Hazardous

waste.)

Origin: - (Hazardous Waste

Regulation)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Corrosive liquids, poisonous, n.o.s. (Hydrofluoric acid, Sulfuric Acid)

DOT Classification Class 8: Corrosive liquid. Class 6.1: Poisonous material. **UN number** 2922

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:

Sulfuric Acid Hydrofluoric acid

Ethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 311: Sulfuric Acid; Hydrofluoric acid; Phosphoric acid Clean air act (CAA) 112 regulated toxic substances: Ethylene Glycol Monobutyl Ether

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.