

## **SAFETY DATA SHEET**

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)

1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

1-949-474-7707

PRODUCT NAME: All Clear, Spa Stain & Scale

## 1. PRODUCT AND COMPANY IDENTIFICATION

17872 Mitchell N. Irvine, CA 92614-6034

USA

Telephone: +19494747707 Telefax: +19494747024 Web: WWW.ALLCLEAR.COM

SDS Number: 000000012547

SYNONYMS: None CHEMICAL FAMILY: None

DESCRIPTION / USE None established FORMULA: None established

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:

Corrosive to eyes., Moderate skin irritant, Possible respiratory irritant

Routes of Entry: Inhalation, skin, eyes, ingestion
Chemical Interactions: No known or reported interactions.

Medical Conditions Aggravated: None known or reported

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### **Human Threshold Response Data**

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

## <u>Hazardous Materials Identification System / National Fire Protection Association Classifications</u>

Hazard Ratings :	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special hazard.
HMIS	3	0	0	
NFPA	3	0	0	

### Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to be toxic by inhalation. Inhalation of mist or vapor may

cause irritation to the mucous membranes of the respiratory tract. Any irritation would be transient with no permanent damage expected.

Skin Toxicity: Not expected to be toxic from dermal contact. Skin contact may cause

moderate irritation consisting of transient redness and swelling. This irritant effect would not be expected to result in permanent damage.

Eye Toxicity: Corrosive. Burns can occur following exposure. Direct contact may

cause impairment of vision, corneal damage and/or blindness. Rinsing

of the eye should take place immediately.

Ingestion Toxicity: Ingestion may cause irritation of the gastrointestinal tract and

gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting or diarrhea. Not expected to be toxic by ingestion.

Acute Target Organ Toxicity: This product is corrosive to the eyes, moderately irritating to the skin

and upon inhalation, may cause irritation to mucous membranes and

respiratory tract.

### Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any

reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory

animals.

Reproductive and This product has been tested and was shown not to produce any

Developmental Toxicity: adverse effects on reproductive function or fetal development when

administered to laboratory animals.

Inhalation: There are no known or reported effects from chronic exposure.

Skin Contact: Prolonged or repeated exposure may cause severe irritation.

Skin Absorption: There are no known or reported effects from chronic exposure.

Ingestion: There are no known or reported effects from chronic ingestion except for

effects similar to those experienced from single exposure.

Eye Contact: Prolonged contact may result in permanent damage.

Sensitization: This material tested negative for skin sensitization in animals.

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Chronic Target Organ Toxicity: There are no known or reported effects to humans from repeated

exposure to this product.

Supplemental Health Hazard

Information:

No additional health information available.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME CAS # % RANGE

ETIDRONIC ACID 2809-21-4

## 4. FIRST AID MEASURES

Inhalation: IF INHALED: Remove individual to fresh air. Seek medical attention if breathing

becomes difficult or if respiratory irritation develops.

Skin Contact: IF ON SKIN: Immediately flush skin with plenty of water for 15 minutes. If clothing

comes in contact with the product, the clothing should be removed immediately and laundered before re-use. Seek medical attention if irritation develops.

Eye Contact: IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes.

Seek medical attention immediately.

Ingestion: IF SWALLOWED: Call a physician immediately. DO NOT induce vomiting unless

directed to do so by a physician. Never give anything by mouth to an unconscious

person.

## 5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible, pyrophoric or

explosive.

Flammable Properties

Fire / Explosion Hazards: This material is not expected to burn unless all the water is boiled

away. The remaining compounds may be ignitable.

Extinguishing Media: Choose extinguishing media suitable for surrounding materials. In case of fire, use normal fire-fighting equipment and the personal

protective equipment recommended in Section 8 to include a NIOSH

approved self-contained breathing apparatus.

Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency

Situations:

Use the personal protective equipment recommended in Section 8

and a NIOSH approved self-contained breathing apparatus.

**Spill Mitigation Procedures** 

Air Release: Vapors may be suppressed by the use of water fog. Keep people

away from and upwind of spill/leak.

Water Release: This material is soluble in water. If the product contaminates rivers

and lakes or drains inform respective authorities.

Land Release: Contain spillage, soak up with non-combustible absorbent material,

(e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).Do not contaminate ponds, waterways or ditches with

chemical or used container.

Additional Spill Information: Stop source of spill as soon as possible and notify appropriate

personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all nonessential personnel. Dispose of spill residues per guidelines under

Section 13, Disposal Consideration.

## 7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

mist or vapor.

Storage: Store in a cool, dry and well ventilated place. Keep containers tightly

closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation is recommended if vapors, mists, aerosols or dusts

are generated. Otherwise, use general exhaust ventilation.

Protective Equipment for Routine Use of Product

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Respiratory Protection: Respiratory protection not normally needed., If vapors, mists or aerosols are

generated, wear a NIOSH approved respirator., A NIOSH approved full-face or half-face respirator in combination with chemical goggles., A NIOSH approved air purifying respirator with P100 filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure

concentrations exceed ten (10) times the published limit.

Skin Protection: Wear impervious gloves to avoid skin contact. Eye Protection: Use chemical goggles and a faceshield.

Protective Clothing Type: Impervious

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area.

Exposure Limit Data

CHEMICAL NAME CAS # Name of Limit Exposure

No Data Found

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Form No data.
Color: No data.
Odor: No data.

Molecular Weight: None established

Specific Gravity: 1.01 - 1.02

20 °C

pH: < 0.0 - 2.0

Boiling Point: 100 °C

212 °F

Freezing Point:

not applicable

Melting Point:

not applicable

Density:

Bulk Density: no data available Vapor Pressure: no data available Vapor Density: no data available

Viscosity: no data available no data available

Solubility in Water: soluble in cold water Partition coefficient n- Not applicable

octanol/water:

Evaporation Rate: no data available
Oxidizing: None established
Volatiles, % by vol.: no data available
VOC Content no data available

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HAP Content Not applicable

## 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.

Conditions to Avoid: High temperatures

Chemical Incompatibility: Strong oxidizing agents, Strong acids, Bases, Amines, metal salts Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. Phosphines may form after all

water has been removed., nitrogen oxides (NOx)

Decomposition Temperature: No data

## 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

ETIDRONIC ACID LD50 = 1,440 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

ETIDRONIC ACID LD50 > 4,764 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

ETIDRONIC ACID No data

**Product Animal Toxicity** 

<u>Oral LD50 value</u>: LD50 Believed to be > 5,000 mg/kg rat <u>Dermal LD50 value</u>: LD50 Believed to be > 5,000 mg/kg rabbit

Inhalation LC50 no data available

value:

Skin Irritation: This material is expected to be moderately irritating.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: Negative skin sensitizer, guinea pig - Magnusson-Kligman method.

Acute Toxicity: This product is corrosive to the eyes, moderately irritating to the skin and upon

inhalation, may cause irritation to mucous membranes and respiratory tract.

initial ation, may cause initiation to mucous membranes and respiratory tract.

Subchronic / Chronic High oral exposure of a similar chemical to laboratory rodents has been shown to alter red and white cell count, decrease hemoglobin concentration and decrease

the hematocrit value. This effect to blood occurred when they were fed a diet containing 3% HEDP-A. No effect was observed at a dietary concentration of 1%.,

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The hematological effects observed in laboratory studies using rodents would be unlikely to occur in humans because of the high dose required.

Reproductive and Developmental Toxicity:

This product has been tested and was shown not to produce any adverse effects on reproductive function or fetal development when administered to laboratory animals.

ETIDRONIC ACID

This product has been tested and was shown not to produce any adverse effects on reproductive function or fetal development when administered to laboratory animals.

Mutagenicity:

ETIDRONIC ACID

This chemical has been tested and was shown to be non-mutagenic.

This chemical has been tested and was shown to be

non-mutagenic.

Carcinogenicity:

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure

have been shown not to cause cancer in laboratory animals.

**ETIDRONIC ACID** 

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory animals.

## 12. ECOLOGICAL INFORMATION

Overview: Practically non- toxic to fish and other aquatic organisms., Practically non-toxic

to wildlife and domestic animals.

### Ecological Toxicity Values for: ETIDRONIC ACID

Bluegill - 96 h LC50 = 868 mg/l

Rainbow trout (Salmo gairdneri), - 96 h LC50 = 368 mg/l Channel Catfish (Ictalurus - 96 h LC50 = 695 mg/l

punctatus rafinesque),

Sheepshead minnow - 96 h LC50 = 2,180 mg/l

Daphnia magna, - 48 h EC50= 527 mg/l
Grass shrimp - 96 h LC50= 1,770 mg/l

Oyster Shell Deposition - 96 h EC50= 89 mg/l

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# 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it will be a hazardous waste which

is subject to the Land Disposal restrictions under 40 CFR 268 and

must be managed accordingly.

Disposal Methods: As a hazardous liquid waste it must be disposed of in accordance

with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

Land (US DOT): Not Regulated NOT REGULATED AS A DOT HAZARDOUS MATERIAL Water (IMDG): UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (ETIDRONIC

ACID) 8 III Marine Pollutant: No

Air (IATA): UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (ETIDRONIC

ACID) 8 III

Emergency Response Guide Number: Not applicable

Transportation Notes: Product not regulated for ground transport in the USA per

exception permitted in 49 CFR 173.154(d).

EMS: F-A, S-B

# 15. REGULATORY INFORMATION

**UNITED STATES:** 

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals

(40 CFR 180):

Not registered in the US under FIFRA.

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### Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard

Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS\_SAR302 TPQ (threshold planning None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS\_CERCLA Reportable quantity None established ZUS\_SAR302 Reportable quantity None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS\_CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS # COMPONENT NAME

ZUSPA\_RTK None established

New Jersey:

CAS # COMPONENT NAME

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ZUSNJ RTK None established

Massachusetts:

CAS # COMPONENT NAME

ZUSMA\_RTK None established

California Proposition 65:

CAS# COMPONENT NAME

ZUSCA\_P65 None established

#### WHMIS Hazard Classification:

None established

## **16. OTHER INFORMATION**

SDS REVISION STATUS:

SECTIONS REVISED: First formulated version in SAP.

Major References : Available upon request.

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. AQUA TRI $_{\tiny (B)}$  BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT AQUA TRI $_{\tiny (B)}$  SDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.