



Material Name: Sludgehammer Universal Corrosion Inhibitor

***** Section 1 - Product and Company Identification *****

MSDS # 1616E
Product Name: Sludgehammer Universal Corrosion Inhibitor
Product Number: 35297
Intended Use: Corrosion Inhibitor for use in propylene glycol based hydronic heating systems.

Manufacturer Information

HHC Holdings Inc.
An Oatey Affiliate
4700 West 160th Street
Cleveland, OH 44135

Phone: 216-267-7100

For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1- 703-527-3887.

***** Section 2 - Hazards Identification *****

GHS Classification:

Serious Eye Damage (Category 1), H318
Acute Toxicity, Oral (Category 4) H302
Skin Corrosion/Irritation (Category 2) H315

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes Serious eye Damage
H335 May cause respiratory irritation

Precautionary Statements

P261 Avoid breathing dust fume/gas/mist/vapours/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
P363 Wash contaminated clothing before reuse.
P312 Call a POISON CENTER or doctor if you feel unwell.
P501 Dispose of contents/containers to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7732-18-5	Water	80 - 90
19766-89-3	Sodium 2-Ethylhexanoate	5 - 15
64665-57-2	Tolytriazole sodium salt	1 - 5

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

First Aid: Skin

Wash off with warm water and soap. If skin irritation persists, call a physician.

First Aid: Ingestion

Clean mouth with water. Call a physician.

First Aid: Inhalation

Move to fresh air.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Not flammable.

Hazardous Combustion Products

None known.

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

*** Section 6 - Accidental Release Measures ***

Recovery and Neutralization

Prevent further leakage or spillage if safe to do so.

Materials and Methods for Clean-Up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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Environmental Precautions

None.

Prevention of Secondary Hazards

None.

***** Section 7 - Handling and Storage *****

Handling Procedures

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

Storage Procedures

Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.

Incompatibilities

None known based on information supplied.

***** Section 8 - Exposure Controls / Personal Protection *****

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Measures

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: Hands

No special protective equipment required.

Personal Protective Equipment: Eyes

Safety glasses with side-shields.

Personal Protective Equipment: Skin and Body

No special protective equipment required.

***** Section 9 - Physical & Chemical Properties *****

Appearance: Transparent
Physical State: Liquid
Vapor Pressure: ND
Boiling Point: 100°C / 212°F
Solubility (H2O): Soluble
Evaporation Rate: ND
Octanol/H2O Coeff.: ND
Flash Point Method: NA

Odor: None
pH: 8.0 – 9.0
Vapor Density: ND
Melting Point: ND
Specific Gravity: 1.03
VOC: 0 g/L
Flash Point: >100°C / 212°F
Upper Flammability Limit (UFL): NA
Burning Rate: NA

Lower Flammability Limit (LFL): NA
Auto Ignition: NA

***** Section 10 - Chemical Stability & Reactivity Information *****

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

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Incompatible Products

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

***** Section 11 - Toxicological Information *****

Acute Toxicity

Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat - >90 mL/kg

2-Ethylhexanoic Acid (149-57-5)

Oral LD50 Rat - 3,000 mg/kg

Dermal LD 50 Rabbit – 1142 mg/kg

Tolyltriazole Sodium Salt (64665-57-2)

Oral LD50 Rat - 640 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

None known.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes causes severe eye irritation.

Potential Health Effects: Ingestion

Ingestion may cause stomach discomfort.

Potential Health Effects: Inhalation

No known effect.

Respiratory Organs Sensitization/Skin Sensitization

None expected.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity

Suspected human reproductive toxicant.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

***** Section 12 - Ecological Information *****

Ecotoxicity

A: General Product Information

This product is not expected to be toxic to aquatic organisms.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

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Persistence/Degradability

No information available for the product.

Bioaccumulation

No information available for the product.

Mobility in Soil

No information available for the product.

***** Section 13 - Disposal Considerations *****

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

***** Section 14 - Transportation Information *****

DOT Information

Shipping Name: Not Regulated

IMDG Information

Shipping Name: Not Regulated

IATA Information

Shipping Name: Not Regulated

***** Section 15 - Regulatory Information *****

Regulatory Information

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

California Prop 65

This product contains a chemical known to the state of California to cause birth defects or reproductive harm.
(2-Ethylhexanoic Acid)

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
2-Ethylhexanoic acid	149-57-5	Yes	DSL	EINECS
Tolytriazole sodium salt	64665-57-2	Yes	DSL	EINECS

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*** * * Section 16 - Other Information * * ***

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

NFPA and HMIS:

NFPA Hazard Signal: Health: 1 Flammability: 0 Reactivity: 0

HMIS Hazard Signal: Health: 1 Flammability: 0 Reactivity: 0

Disclaimer:

The information herein has been compiled from sources believed to be reliable, up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources, and expressly do not make warranties, nor assume any liability for its use.

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