



Material Name: Sludgehammer System Restorer

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

MSDS # 1617E
Product Name: Sludgehammer System Restorer
Product Number: 35298
Intended Use: Removes mineral and other build-up from 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:

Eye irritation (Category 2A), H319

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

Warning

Hazard Statements

H319 Causes Eye Irritation

Precautionary Statements

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

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

None

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

CAS #	Component	Percent
7732-18-5	Water	85 - 95
20592-85-2	Amino tri (methylene phosphonic acid) pentasodium salt,	1 - 10
9003-04-7	Poly (acrylic acid, sodium salt)	0 - 1
1643-20-5	Lauramine Oxide	0 - 1

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***** 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.

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.

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***** 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: Based on Water

Lower Flammability Limit (LFL): Non-flammable

Auto Ignition: Not Known

Odor: None

pH: 5.0 – 6.0

Vapor Density: ND

Melting Point: ND

Specific Gravity: 1.025

VOC: NA

Flash Point: > 100°C / 212°F

Upper Flammability Limit (UFL): Non-flammable

Burning Rate: NA

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

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

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

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Potential Health Effects: Skin Corrosion Property/Stimulativeness

None known.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

Contact with eyes will cause 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

This product is not reported to have any reproductive toxicity effects.

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.

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.

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***** 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 Proposition 65: This product contains chemicals known to the state of California to cause cancer. (Formaldehyde)

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
Amino tri (methylene phosphonic acid) pentasodium salt,	20592-85-2	Yes	DSL	No
Poly (acrylic acid, sodium salt)	9003-04-7	Yes	DSL	EINECS
Lauramine Oxide	1643-20-5	Yes	DSL	EINECS

***** 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

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

Disclaimer:

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