



**Material Name: Haymaker Tankless Water Heater Descaler**

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

**MSDS #1671E**

**Catalog Number: 35230, 35231, 35240**

**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 Damage/Irritation - Category 2A

**GHS LABEL ELEMENTS**

**Symbol(s)**



**Signal Word**

Warning

**Hazard Statements**

Causes serious eye irritation.

**Precautionary Statements**

**Prevention**

Wash thoroughly after handling.  
Wear protective gloves/eye protection/face protection.

**Response**

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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 advice/attention.

**Disposal**

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

**Material Name: Hercules Haymaker Tankless Water Heater Descaler**

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

CAS #	Component	Percent
7732-18-5	Water	40 - 60
77-92-9	Citric Acid	40 - 60

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

**First Aid: Eyes**

Rinse thoroughly with plenty of water, also under the eyelids.

**First Aid: Skin**

Wash off with warm water and soap.

**First Aid: Ingestion**

Clean mouth with water and afterwards drink plenty of water.

**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 based on information supplied.

**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**

Neutralize with sodium bicarbonate or soda ash. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.

**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.

**Material Name: Hercules Haymaker Tankless Water Heater Descaler**

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

**Handling Procedures**

Handle in accordance with good industrial hygiene and safety practice.

**Storage Procedures**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatibilities**

Strong oxidizing agents.

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

**Component Exposure Limits**

No Exposure guidelines have been established.

**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**

If splashes are likely to occur, wear goggles.

**Personal Protective Equipment: Skin and Body**

No special protective equipment required.

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

<b>Appearance:</b>	Colorless to Yellow	<b>Odor:</b>	Slight Sugary
<b>Physical State:</b>	Liquid	<b>pH:</b>	2.5
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	ND
<b>Boiling Point:</b>	100°C / 212°F	<b>Melting Point:</b>	ND
<b>Solubility (H2O):</b>	Soluble	<b>Specific Gravity:</b>	1.24
<b>Evaporation Rate:</b>	ND	<b>VOC:</b>	0 g/L
<b>Viscosity:</b>	25 cps	<b>Octanol/H2O Coeff.:</b>	ND
<b>Flash Point:</b>	NA	<b>Flash Point Method:</b>	NA
<b>Upper Flammability Limit</b>	NA	<b>Lower Flammability Limit</b>	NA
<b>(UFL):</b>		<b>(LFL):</b>	
<b>Burning Rate:</b>	NA	<b>Auto Ignition:</b>	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**

Strong oxidizing agents.

**Material Name: Hercules Haymaker Tankless Water Heater Descaler**

### **Hazardous Decomposition Products**

None known based on information supplied.

<b>*** Section 11 - Toxicological Information ***</b>
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### **Acute Toxicity**

#### **Component Analysis - LD50/LC50**

**Water (7732-18-5)**

Oral LD50 Rat >90 mL/kg

**Citric Acid (77-92-9)**

Oral LD50 Rat >3g/kg

#### **Potential Health Effects: Skin Corrosion Property/Stimulativeness**

Causes skin irritation.

#### **Potential Health Effects: Eye Critical Damage/ Stimulativeness**

Causes serious eye irritation.

#### **Potential Health Effects: Ingestion**

No known effect.

#### **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.

<b>*** Section 12 - Ecological Information ***</b>
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### **Ecotoxicity**

#### **A: General Product Information**

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

**Material Name: Hercules Haymaker Tankless Water Heater Descaler**

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

**Citric Acid (77-92-9)**

**Test & Species**

24 Hr EC50 Daphnia magna

>80 mg/L

48 Hr EC50 Daphnia magna

>120 mg/L [Static]

**Conditions**

**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:** Corrosive Liquid, Acidic, Organic, N.O.S (Citric Acid)

**Hazard Class:** 8

**UN/NA Number:** UN3265

**Packing Group:** III

**Reportable Qty:** N/A

(Exempt from placarding by the US DOT as per 49 CFR 173.154(d) (2))

**IMDG Information**

**Shipping Name:** Corrosive Liquid, Acidic, Organic, N.O.S (Citric Acid)

**Hazard Class:** 8

**UN/NA Number:** UN3265

**Packing Group:** III

**Reportable Qty:** N/A

**\*\*\* 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**

## Material Name: Hercules Haymaker Tankless Water Heater Descaler

### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Citric Acid	77-92-9	No	No	No	Yes	Yes	No

### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Citric Acid	77-92-9	1 % item 409 (80)

### Additional Regulatory Information

### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Citric Acid	77-92-9	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: 0 Flammability: 0 Reactivity: 0

HMIS Hazard Signal: Health: 0 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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