

## HD Citrus Cleaner/Degreaser

### SECTION 1. IDENTIFICATION

**Product Identifier** HD Citrus Cleaner/Degreaser  
**Product Family** Degreaser  
**Supplier Identifier** Glen Martin Limited, 38 Fraser Court, Barrie, ON, L4N 5J5, 705.721-8800 / 1.800.461.5455  
**Emergency Phone No.** CANUTEC , 613-996-6666, 24 Hours  
**SDS No.** 0205  
**Date of Preparation** November 08, 2016

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Eye irritation - Category 2B

**Label Elements**

**Warning**

Causes eye irritation.

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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Alcohols, C7-21, ethoxylated	68991-48-0	5-15	
EDTA Acid	60-00-4	1-5	
Sodium Metasilicate	6834-92-0	1-5	
Sodium Bicarbonate	144-55-8	1-5	

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

**Skin Contact**

Rinse skin with cool water. If skin irritation or a rash occurs, get medical advice or attention.

**Eye Contact**

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

If eye irritation persists, get medical advice or attention.

**Ingestion**

Do not induce vomiting. Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

### First-aid Comments

If exposed or concerned, get medical advice or attention.

### Immediate Medical Attention and Special Treatment

#### Medical Conditions Aggravated by Exposure

Dermatitis.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

### Specific Hazards Arising from the Product

Very toxic carbon monoxide, carbon dioxide.

### Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Dike spilled product to prevent runoff. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

General hygiene considerations: do not get in eyes, on skin or on clothing.

Avoid contamination by any source including dusts, metals and organic materials. Prevent accidental contact with incompatible chemicals.

### Conditions for Safe Storage

Store in a closed container. Separate from incompatible materials (see Section 10: Stability and Reactivity). Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Sodium Metasilicate	10 mg/m3					

### Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash in work area, if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

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## Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear yellow liquid.
<b>Odour</b>	Citrus
<b>pH</b>	12.5 (100% solution)
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Relative Density (water = 1)</b>	1.054
<b>Solubility</b>	Soluble in water
<b>Decomposition Temperature</b>	Not available
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Conditions to Avoid

Prolonged exposure to high temperatures. Contamination.

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

### Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
EDTA Acid		> 2000 mg/kg (rat)	
Sodium Metasilicate		1153 mg/kg	
Alcohols, C7-21, ethoxylated		> 2000 mg/kg (rat)	
Sodium Bicarbonate	> 4.74 mL/kg (rat)	730 mg/kg (rat)	

LD50 (dermal): No information was located.

### Skin Corrosion/Irritation

May cause irritation.

### Serious Eye Damage/Irritation

Animal tests show serious eye irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

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**Inhalation**

Nose and throat irritation.

**Skin Absorption**

May be harmful.

**Ingestion**

May cause severe irritation or burns to the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Symptoms may include dry, red, cracked skin (dermatitis).

**Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
EDTA Acid	Not Listed	Not designated	Not Listed	Not Listed
Sodium Metasilicate	Not Listed	Not designated	Not Listed	Not Listed
Alcohols, C7-21, ethoxylated	Not Listed	Not designated	Not Listed	Not Listed
Sodium Bicarbonate	Not Listed	Not designated	Not Listed	Not Listed

**Reproductive Toxicity****Development of Offspring**

No information was located.

**Sexual Function and Fertility**

No information was located.

**Germ Cell Mutagenicity**

Not known to be a mutagen.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea
EDTA Acid	760 mg/L (Lepomis macrochirus (bluegill); 96-hour)	
Sodium Metasilicate	210 mg/L (Brachydanio rerio (zebra fish); 96-hour; semi-static)	
Alcohols, C7-21, ethoxylated	> 50 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	
Sodium Bicarbonate	8600 mg/L (Lepomis macrochirus (bluegill); 96-hour; static)	1640 mg/L (Daphnia magna (water flea); 48-hour; static)

**Persistence and Degradability**

Expected not to degrade rapidly based on indirect evidence e.g. knowledge from structurally similar substances.

**Bioaccumulative Potential**

This product and its degradation products are not known to bioaccumulate.

**Mobility in Soil**

If released into the environment, this product is expected to move rapidly through the soil, based on physical and chemical properties.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

#### WHMIS 1988 Classification



Class D2B

D2B - Toxic (Eye irritant)

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**NFPA Rating**      **Health - 2**      **Flammability - 0**      **Instability - 0**

**SDS Prepared By**      Elemental

**Phone No.**      519.537.1095

**Date of Preparation**      November 08, 2016

**Disclaimer**      The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. The information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

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