

## DISHMACHINE DELIMER/ DESCALER ES

## 1. Product and Company Identification

**Product Code:** 544-0206  
**Product Name:** Dishmachine Delimer/Descaler ES  
**Company Name:** Native Green LLC  
 2110 East Walton Blvd  
 Auburn Hills, MI  
**Web site address:** nativegreen.com  
**Emergency Contact:** Chemtrec, Reference: CCN203605  
**Information:** [info@nativegreen.com](mailto:info@nativegreen.com)  
**Phone Number:** (888) 456-6444  
 (800)424-9300

## 2. Hazards Identification

**Skin Corrosion/Irritation, Category 2**

**Serious Eye Damage/Eye Irritation, Category 2**



**GHS Signal Word:** **Warning**  
**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves/ eye protection.  
**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician.  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 P321 - Specific treatment see appropriate section on the label or SDS.  
 P332+313 - If skin irritation occurs, get medical advice/attention.  
 P337+313 - If eye irritation persists, get medical advice/attention.  
 P362 - Take off contaminated clothing and wash before re-use.  
**GHS Storage and Disposal Phrases:** No phrases apply.  
**Potential Health Effects (Acute and Chronic):**  
**Inhalation:** Causes respiratory tract irritation.  
**Skin Contact:** Causes skin irritation.  
**Eye Contact:** Causes eye irritation.  
**Ingestion:** May cause irritation of the digestive tract. Ingestion of large amounts may cause nausea and vomiting, rigidity or convulsions. Continued exposure can produce coma, dehydration, and internal organ congestion.

## DISHMACHINE DELIMER/ DESCALER ES

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
77-92-9	Citric acid	30.0 -50.0 %

### 4. First Aid Measures

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
<b>In Case of Eye Contact:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### Signs and Symptoms Of Exposure:

Vomiting, Diarrhea. Damage to tooth enamel. Dermatitis.

### 5. Fire Fighting Measures

**Flash Pt:** NP Method Used: Estimate

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:** NA

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Fire Fighting Instructions:** Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

#### Flammable Properties and Hazards:

### 6. Accidental Release Measures

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Personal precautions. Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions. Do not let product enter drains.  Pick up and arrange disposal without creating dust. Sweep up and shovel.
---	---

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid formation of dust and aerosols.  
Normal measures for preventive fire protection.

**Precautions To Be Taken in Storing:** Store in a cool, dry place.

### 8. Exposure Controls/Personal Protection

# SAFETY DATA SHEET

## DISHMACHINE DELIMER/ DESCALER ES

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
77-92-9	Citric acid			
<b>Respiratory Equipment</b>	Respirator protection is not normally required.			
<b>Eye Protection:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Protective garments not normally required.			
<b>Engineering Controls (Ventilation etc.):</b>	There are no special ventilation requirements. Use adequate ventilation to keep airborne concentrations low.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			

### 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ ] Liquid [ X ] Solid		
<b>Appearance and Odor:</b>	White granular powder No odor.		
<b>Melting Point:</b>	0.00 C - 0.00 C		
<b>Boiling Point:</b>	0.00 C		
<b>Autoignition Pt:</b>	NA		
<b>Flash Pt:</b>	NP Method Used: Estimate		
<b>Explosive Limits:</b>	LEL:		UEL:
<b>Specific Gravity (Water = 1):</b>			
<b>Density:</b>	~ 60 LB/CF		
<b>Vapor Pressure (vs. Air or mm Hg):</b>			
<b>Vapor Density (vs. Air = 1):</b>			
<b>Evaporation Rate:</b>			
<b>Solubility in Water:</b>	Complete		
<b>pH:</b>	~ 2.5 - @ 1%		
<b>Percent Volatile:</b>			

### 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	High temperatures, Incompatible materials, dust generation.
<b>Incompatibility - Materials To Avoid:</b>	Incompatible with alkalis, sol carbonates, gold and silver salts, lead acetate, lime water, potassium iodide, potassium and sodium tartrate, sodium borate, tannin, vegetable astringent infusions and decoctions. bromine trifluoride, nitrogen compounds, Oxidizing agents, Bases, Reducing agents, nitrates.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon oxides.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	

## DISHMACHINE DELIMER/ DESCALER ES

## 11. Toxicological Information

<b>Toxicological Information:</b>	Epidemiology: The only adverse effect noted from occupational exposures have been mild nasal irritation with exposure to high dust levels and hypertension. Teratogenicity: No information available. Reproductive Effects: No information found.
<b>Irritation or Corrosion:</b>	Skin - rabbit - Mild skin irritation - -24 h. Serious eye damage/eye irritation: Eyes - rabbit - Severe eye irritation.
<b>Carcinogenicity/Other Information:</b>	CAS# 7647-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
77-92-9	Citric acid	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.  Contaminated packaging. Dispose of as unused product.
-------------------------------	--

## 14. Transport Information

## LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	Not regulated as a hazardous material.	
<b>DOT Hazard Class:</b>	NA	None
<b>UN/NA Number:</b>		

## 15. Regulatory Information

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
77-92-9	Citric acid	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
77-92-9	Citric acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## DISHMACHINE DELIMER/ DESCALER ES

## 16. Other Information

Revision Date: 01/01/2015  
Preparer Name: Regulatory Affairs

Hazard Rating System:

HEALTH		2
FLAMMABILITY	0	
REACTIVITY	0	
PPE	B	

HMIS:

**Additional Information About**

**This Product:**

**Company Policy or**

**Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.