

# Material Safety Data Sheet

Limescale Remover

## Manufacturer Information

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### Date Prepared:

3/8/11

## Hazardous Composition

CAS #	Component	Percent
77-92-9	Citric acid	5-15
68515-73-1	D-Glucopyranose, oligomeric, decyl octyl glycosides	1-5
Not Available	Perfume	0.1-1
31906-04-4	3-Cyclohexene-1-carboxaldehyde, 4-(4-hydroxy-4-methylpentyl)-	0.01-0.1
78-70-6	Linalool	0.01-0.1
5989-27-5	D-Limonene	0.01-0.1
106-24-1	Geraniol	0.01-0.1

### Component Exposure Limits

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

## Physical/Chemical Properties

<b>Appearance:</b> Colorless	<b>Odor:</b> Citrus Fruits
<b>Physical State:</b> Liquid	<b>pH:</b> 1.9
<b>Vapor Pressure:</b> ND	<b>Vapor Density:</b> ND
<b>Boiling Point:</b> ND	<b>Melting Point:</b> ND
<b>Solubility (H2O):</b> Complete	<b>Specific Gravity:</b> 1.05 kg/l
<b>Evaporation Rate:</b> ND	<b>VOC:</b> 0.2
<b>Viscosity:</b> ND	<b>Octanol/H2O Coeff.:</b> ND
<b>Flash Point:</b> >100°C	<b>Flash Point Method:</b> ND
<b>Upper Flammability Limit (UFL):</b> None	<b>Lower Flammability Limit (LFL):</b> None
<b>Burning Rate:</b> ND	<b>Auto Ignition:</b> ND

## Fire and Explosion

**Flash Point:** >100°C

**Upper Flammable Limit (UFL):** None

**Auto Ignition:** ND

**Rate of Burning:** ND

**Method Used:** ND

**Lower Flammable Limit (LFL):** None

**Flammability Classification:** None

### Extinguishing Media:

Use appropriate media for surrounding fire.

### Special Fire Fighting Procedures:

Firefighters should wear full protective gear.

### Unusual Fire and Explosion Hazards:

None

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## Reactivity Data

### Stability:

This is a stable material.

### Hazardous Decomposition:

None under normal conditions.

### Incompatibility:

Do not mix with other cleaning products (and certain not with chlorous products). Bases.

### Hazardous Polymerization:

Will not occur.

### Conditions To Avoid:

Do not store <0°C and >40°C.

## Health Hazard Data

### Routes of Entry:

Eye, skin and gastrointestinal tract.

### Acute Skin Contact:

Irritating to skin. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis.

### Chronic Skin Contact:

Not Determined

### Acute Eye Contact:

Irritation to eyes. Redness, pain.

### Acute Ingestion:

May cause gastrointestinal irritation if swallowed. Burning feeling in case of ingestion of large amounts.

### Carcinogenicity:

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

##### D-Limonene (5989-27-5)

IARC: Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data) (Group 3 (not classifiable))

### Medical Conditions Aggravated by Exposure:

None

## EMERGENCY & FIRST AID PROCEDURES

### Ingestion:

Rinse mouth. Do not induce vomiting. Give water to drink. Seek medical advice.

### Inhalation:

Assure fresh air breathing. Seek medical advice.

### Skin Contact:

Rinse affected area thoroughly with water to remove concentrated product. Remove contaminated clothing. Seek medical attention if ill effect or irritation develops.

### Eye Contact:

Rinse immediately and thoroughly with plenty of water for at least 15 minutes (also assure adequate flushing under the eyelids and if possible after having removed contact lenses). Seek medical attention.

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## Precautions for Safe Handling and Use

### Steps to taken in case of release or spill:

Stop the flow of material, if this is without risk. Isolate area. Keep unnecessary personnel away. Recover usable material in a clean closable container for reuse. Sweep up contaminated material and dispose of as chemical waste. Remove the remainder with water. Avoid release to the environment.

### Waste Disposal Method:

Waste of this product is considered chemical waste. The legislation concerning disposal of waste can differ from one country/state to another. The disposal should therefore be done according to national or local waste legislation. If in doubt, ask the local waste management authority for advice.

### Handling and Storage

Avoid contact with skin and eyes. Keep only in the original container in a cool, well ventilated place. Keep out of the reach of children.

### Transportation Information:

### US DOT Information

Shipping Name: Not Regulated

## Control Measures

### Respiratory:

None required under normal product use conditions.

### Monitoring:

Not Applicable

### Medical Surveillance:

Not Applicable

### Skin:

Wear waterproof gloves (preferably PVC, neoprene, butyl or natural rubber) and acid protective clothing when taking up intensively material which is accidentally released. Wash contaminated clothing before re-using.

### Eyes:

Wear safety goggles when clearing accidentally released material and if there is a risk of splashing. Contact lenses increase the risk of eye injuries in case of eye contact.

### Ventilation Controls

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

## Other Information:

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