

## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

<b>Product Name</b>	• <b>Citric Acid Cleaners</b>
<b>CAS Number</b>	• 77-92-9
<b>Product Code</b>	• MSDS No. 1806, 2700, 2701
<b>EC Number</b>	• 201-069-1
<b>Molecular Formula</b>	• :C 6:H 8:O 7:

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Relevant identified use(s)</b>	• Rust and mineral deposit stain remover
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#### 1.3 Details of the supplier of the safety data sheet

<b>Supplier</b>	• Scotch Corporation 1255 Viceroy Dallas, TX 75247 United States www.scotchcorp.com mail@scotchcorp.com
<b>Telephone (General)</b>	• 1-800-334-2077
<b>EU Supplier</b>	• Robimatic Ltd. Sandall Stones Road Kirk Sandall Industrial Estate Doncaster DN3 1QR United Kingdom  robimatic@polypipe.com
<b>Telephone (General)</b>	• +44 (0) 1302-790-790
<b>Fax</b>	• +44 (0) 1302-790-088

#### 1.4 Emergency telephone number

- 1-800-424-9300 - CHEMTREC (USA)
- 1-703-527-3887 - CHEMTREC (International)

### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

<b>CLP</b>	• Skin Irritation 2 - H315
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Serious Eye Damage 1 - H318  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

DSD/DPD

- Irritant (Xi)  
R36/38, R41

## 2.2 Label Elements

CLP

### DANGER



- Hazard statements**
- H315 - Causes skin irritation
  - H318 - Causes serious eye damage
  - H335 - May cause respiratory irritation

### Precautionary statements

- Prevention**
- P261 - Avoid breathing dust.
  - P264 - Wash thoroughly after handling.
  - P271 - Use only outdoors or in a well-ventilated area.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
  - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  - P332+P313 - If skin irritation occurs: Get medical advice/attention.
  - P321 - Specific treatment, see supplemental first aid information.
  - P362 - Take off contaminated clothing and wash before reuse.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 - Immediately call a POISON CENTER or doctor/physician.

- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
  - P405 - Store locked up.
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
  - P102 - Keep out of reach of children.

DSD/DPD



- Risk phrases**
- R36/38 - Irritating to eyes and skin.
  - R41 - Risk of serious damage to eyes.

- Safety phrases**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
  - S39 - Wear eye/face protection.
  - S1/2 - Keep locked up and out of the reach of children.

## 2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- This product is not considered dangerous under the European Directive 67/548/EEC

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## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

### OSHA HCS 2012

- Skin Irritation 2
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

### OSHA HCS 2012

#### DANGER



- Hazard statements**
- Causes skin irritation
  - Causes serious eye damage
  - May cause respiratory irritation

#### Precautionary statements

- Prevention**
- Avoid breathing dust.
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.
  - IF ON SKIN: Wash with plenty of soap and water.
  - If skin irritation occurs: Get medical advice/attention.
  - Specific treatment, see supplemental first aid information.
  - Take off contaminated clothing and wash before reuse.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Immediately call a POISON CENTER or doctor/physician.

- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
  - Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
  - Keep out of reach of children.

## 2.3 Other hazards

### OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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## Canada

According to: WHMIS

## 2.1 Classification of the substance or mixture

**WHMIS • Corrosive - E**

## 2.2 Label elements

**WHMIS**

• Corrosive - E

## 2.3 Other hazards

**WHMIS •** In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Citric acid	CAS:77-92-9 EC Number:201-069-1	60% TO 100%	Ingestion/Oral-Rat LD50 • 3 g/kg	EU DSD/DPD: Self Classified - Xi, R41, R37/38 EU CLP: Self Classified - Eye Dam 1, H318 Skin Irrit 2,H319; STOT SE 3: Resp. Irrit., H335 OSHA HCS 2012: Eye Dam 1, Skin Irrit 2; STOT SE 3: Resp. Irrit	NDA

### 3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

See Section 11 for Toxicological Information.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • Move victim to fresh air. If signs/symptoms continue, get medical attention.
- Skin** • Brush away excess material. Immediately flush with cool water for 15 minutes. Wash contaminated clothing or discard. If skin irritation occurs: Get medical advice/attention.
- Eye** • Immediately flush eyes with running water for at least 20 minutes. Get medical attention immediately. Remove contact lenses if worn.
- Ingestion** • Get medical attention. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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### **Section 5 - Firefighting Measures**

#### **5.1 Extinguishing media**

- Suitable Extinguishing Media** • SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable Extinguishing Media** • No data available.

#### **5.2 Special hazards arising from the substance or mixture**

- Unusual Fire and Explosion Hazards** • No data available.
- Hazardous Combustion Products** • May include and are not limited to: Oxides of carbon.

#### **5.3 Advice for firefighters**

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

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### **Section 6 - Accidental Release Measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

- Personal Precautions** • Keep unauthorized personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
- Emergency Procedures** • Isolate spill or leak area.

#### **6.2 Environmental precautions**

- Prevent large spills from entering waterways or sewers.

#### **6.3 Methods and material for containment and cleaning up**

- Containment/Clean-up Measures** • Use broom or vacuum to collect material for disposal. Avoid generating dust. Rinse spill area with water.

#### **6.4 Reference to other sections**

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

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### **Section 7 - Handling and Storage**

#### **7.1 Precautions for safe handling**

- Handling** • Use good safety and industrial hygiene practices. Do not get in eyes or on skin or clothing. Wash thoroughly after handling. Avoid generating dust.

#### **7.2 Conditions for safe storage, including any incompatibilities**

- Storage** • Keep out of reach of children. Keep container closed. Keep away from incompatible materials.

#### **7.3 Specific end use(s)**

- Rust and mineral deposit stain remover.

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

## 8.1 Control parameters

**Exposure Limits/Guidelines** • No applicable exposure limits available for product or components.

## 8.2 Exposure controls

### Engineering

#### Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

#### Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear safety goggles.

#### Skin/Body

- Wear protective rubber gloves and clothing.

### General Industrial

#### Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke during work. Wash hands before eating, drinking, smoking, or going to the bathroom.

### Environmental

#### Exposure Controls

- Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder with a lemon scent.
Color	White	Odor	Lemon scent.
Particulate Type	Dust	Odor Threshold	Data lacking
General Properties			
Boiling Point	347 F(175 C)	Melting Point	307.4 to 309.2 F(153 to 154 C)
Decomposition Temperature	Data lacking	pH	2.08
Specific Gravity/Relative Density	= 1.67 @ 20 C(68 F) Water=1	Water Solubility	Soluble
Solvent Solubility	Data lacking	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	8 %	Autoignition	1850 F(1010 C)
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	-1.72 Kow		

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- Reacts vigorously with alkaline material.

## 10.2 Chemical stability

- Stable under normal temperatures and pressures.

## 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

## 10.4 Conditions to avoid

- Do not mix with other chemicals.

## 10.5 Incompatible materials

- Incompatible Materials: Nitrates, oxides, reducing agents, and strong bases.

## 10.6 Hazardous decomposition products

- May include and are not limited to: Oxides of carbon.

# Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

	CAS	
Instant Power® Toilet Tank Cleaner	77-92-9	<b>Irritation:</b> Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 0.5 mL • Moderate irritation

GHS Properties	Classification
Acute toxicity	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Aspiration Hazard	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Carcinogenicity	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Germ Cell Mutagenicity	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Skin corrosion/Irritation	<b>EU/CLP</b> •Skin Irritation 2 <b>OSHA HCS 2012</b> •Skin Irritation 2
Skin sensitization	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
STOT-RE	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
STOT-SE	<b>EU/CLP</b> •Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation <b>OSHA HCS 2012</b> •Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Respiratory sensitization	<b>EU/CLP</b> •Classification criteria not met <b>OSHA HCS 2012</b> •Classification criteria not met
Serious eye damage/Irritation	<b>EU/CLP</b> •Serious Eye Damage 1 <b>OSHA HCS 2012</b> •Serious Eye Damage 1

## Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • May cause respiratory irritation or chemical burns.
- Chronic (Delayed)** • Repeated and prolonged inhalation of dusts of this material may cause bronchial irritation with chronic cough.

### Skin

- Acute (Immediate)** • May cause skin irritation or chemical burns.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### Eye

- Acute (Immediate)** • May cause severe irritation, severe eye damage or chemical burns.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

### Ingestion

- Acute (Immediate)** • Harmful if swallowed. May cause chemical burns to mouth, throat, and stomach.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.
- Carcinogenic Effects** • The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP and IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

## Section 12 - Ecological Information

### 12.1 Toxicity

Instant Power® Toilet Tank Cleaner			77-92-9		
Dosage	Species	Duration	Results	Exposure Conditions	Comments
1516 mg/L	<b>Fish:</b> Lepomis Macrochirus	96 Hour(s)	NDA	NDA	NDA
120 mg/L	<b>Water Flea:</b> NDA	72 Hour(s)	NDA	NDA	NDA

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- Material data lacking.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

- Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not regulated	NDA	NDA	NDA
TDG	NDA	Not regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
ADR/RID	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

**14.6 Special precautions for user**

- None known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

- Not relevant.

**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications**

- Acute

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**Section 16 - Other Information**

**Last Revision Date**      • 10/March/2015

**Preparation Date**      • 17/September/2013

**Key to abbreviations**

NDA = No data available

**Disclaimer/Statement of Liability**

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