Safety Data Sheet

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

1.1 Product identifier

Product Name • Citric Acid Cleaners
CAS Number • 77-92-9
Product Code • MSDS No. 1806, 2700, 2701
EC Number • 201-069-1
Molecular Formula • C₆H₈O₇:

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

Relevant identified use(s) • Rust and mineral deposit stain remover

1.3 Details of the supplier of the safety data sheet

Supplier • Scotch Corporation
1255 Viceroy
Dallas, TX 75247
United States
www.scotchcorp.com
mail@scotchcorp.com
Telephone (General) • 1-800-334-2077

EU Supplier • Robimatic Ltd.
Sandall Stones Road
Kirk Sandall Industrial Estate Doncaster DN3 1QR
United Kingdom
robimatic@polypipe.com
Telephone (General) • +44 (0) 1302-790-790
Fax • +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: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
Instant Power® Brand Citric Acid Cleaners

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

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


Canada

According to: WHMIS

2.1 Classification of the substance or mixture
Instant Power® Brand Citric Acid Cleaners

**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).**

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See Section 12 for Ecological Information.

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

### 3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid</td>
<td>CAS: 77-92-9 EC Number: 201-069-1</td>
<td>60% TO 100%</td>
<td>Ingestion/Oral-Rat LD50 • 3 g/kg</td>
<td>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</td>
<td>NDA</td>
</tr>
</tbody>
</table>

### 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
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.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- SMALL FIRES: Dry chemical, CO2, 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.

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.

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

7.3 Specific end use(s)

- Rust and mineral deposit stain remover.

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

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>347 F(175 C)</td>
<td>Melting Point</td>
<td>307.4 to 309.2 F(153 to 154 C)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Data lacking</td>
<td>pH</td>
<td>2.08</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>1.67 @ 20 C(68 F)</td>
<td>Water Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Solvent Solubility</td>
<td>Data lacking</td>
<td>Viscosity</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Data lacking</td>
<td>Oxidizing Properties:</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Volatility</td>
<td>Data lacking</td>
<td>Vapor Density</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flammability</td>
<td>Data lacking</td>
<td>UEL</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Data lacking</td>
<td>Autoignition</td>
<td>1850 F(1010 C)</td>
</tr>
<tr>
<td>LEL</td>
<td>8 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

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

**GHS Properties**

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

**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

<table>
<thead>
<tr>
<th>Instant Power® Toilet Tank Cleaner</th>
<th>77-92-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dosage</td>
<td>Species</td>
</tr>
<tr>
<td>1516 mg/L</td>
<td>Fish: Lepomis Macrochirus</td>
</tr>
<tr>
<td>120 mg/L</td>
<td>Water Flea: NDA</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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

Disclaimer/Statement of Liability

- The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Key to abbreviations

NDA = No data available