SAFETY DATA SHEET
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name 750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6
Product number 800-277-0023 H6
Container size 750 ml

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

1.3. Details of the supplier of the safety data sheet
Supplier Mirius™
A Coventry Group Company
Woodhams Road
Siskin Drive
Coventry
CV3 4FX
Tel: +44 (0) 02476 639 739
Fax: +44 (0) 02476 639 717
Email: sales@mirius.com

Contact person For content of safety data sheet:, sds@mirius.com

1.4. Emergency telephone number
Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

National emergency telephone In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Eye Dam. 1 - H318
Environmental hazards Not Classified

2.2. Label elements
Pictogram

Signal word Danger
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

Hazard statements
- H318 Causes serious eye damage.

Precautionary statements
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- 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/ doctor.
- P102 Keep out of reach of children.
- P501 Dispose of contents/ container in accordance with local regulations.

Contains
- D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Detergent labelling
- < 5% non-ionic surfactants, < 5% perfumes, Contains LINALOOL

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>CITRIC ACID ANHYDROUS</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 77-92-9</td>
<td></td>
</tr>
<tr>
<td>EC number: 201-069-1</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119457026-42-XXXX</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68515-73-1</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119488530-36-XXXX</td>
<td></td>
</tr>
</tbody>
</table>

Classification
- Eye Irrit. 2 - H319
- Eye Dam. 1 - H318

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
- Provide eyewash station.

Inhalation
- Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
- Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact
- Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact
- Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing. Show this Safety Data Sheet to the medical personnel.

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

General information
- Provide eyewash station.

Skin contact
- Prolonged contact may cause redness, irritation and dry skin.
Eye contact
The product is irritating to eyes and skin. Prolonged or repeated exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision. Corneal damage. Risk of serious damage to eyes.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours.

5.3. Advice for firefighters
Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions For personal protection, see Section 8. Treat the spilled material according to the instructions in the clean-up section. Take care as floors and other surfaces may become slippery.

6.2. Environmental precautions
Environmental precautions Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections
Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapour/spray. Do not mix with other household chemical products. Do not mix with acid.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Use appropriate hand lotion to prevent defatting and cracking of skin.

7.2. Conditions for safe storage, including any incompatibilities
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store at room temperature. Keep out of the reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

CITRIC ACID ANHYDROUS (CAS: 77-92-9)

DNEL
Available hazard data do not support the need for a DNEL to be established for other health effects.

PNEC
- Fresh water; 0.44 mg/l
- Marine water; 0.044 mg/l
- STP; >1000 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Sediment (Marine water); 3.46 mg/kg
- Soil; 33.1

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES (CAS: 68515-73-1)

DNEL
Workers - Inhalation; Long term systemic effects: 420 mg/m³
Workers - Dermal; Long term systemic effects: 595000 mg/kg/day
General population - Inhalation; Long term systemic effects: 124 mg/m³
General population - Dermal; Long term systemic effects: 357000 mg/kg
General population - Oral; Long term systemic effects: 35.7 mg/kg

PNEC
- Fresh water; 0.176 mg/l
- Marine water; 0.0176 mg/l
- Intermittent release; 0.27 mg/l
- STP; 560 mg/l
- Sediment (Freshwater); 1.516 mg/l
- Sediment (Marine water); 0.152 mg/l

8.2. Exposure controls

Protective equipment
Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.
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Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. Nitrile rubber. Polyethylene. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate hand lotion to prevent defatting and cracking of skin.

Hygiene measures
When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.

Respiratory protection
Respiratory protection not required.

Environmental exposure controls
Avoid releasing into the environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Clear Colourless.

Odour
Perfumed.

pH
pH (concentrated solution): 2-4

Relative density
~ 1.010

Solubility(ies)
Soluble in water.

Explosive under the influence of a flame
Not considered to be explosive.

Comments
Information given is applicable to the product as supplied.

9.2. Other information
Other information
Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not applicable.

10.4. Conditions to avoid
Conditions to avoid
Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products
### 750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

**Hazardous decomposition products**

No known hazardous decomposition products.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicological effects</th>
<th>Information given is based on data of the components and of similar products.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>Notes (oral LD₅₀) Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>Notes (dermal LD₅₀) Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td>Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage. Calculation method.</td>
</tr>
<tr>
<td>Respiratory sensitisation</td>
<td>Not sensitising. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Not classified. Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Does not contain any substances known to be mutagenic.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Does not contain any substances known to be carcinogenic.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Does not contain any substances known to be toxic to reproduction.</td>
</tr>
<tr>
<td>Reproductive toxicity - fertility</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>Not classified as a specific target organ toxicant after a single exposure.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity - repeated exposure</td>
<td>Not classified as a specific target organ toxicant after repeated exposure.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td></td>
</tr>
</tbody>
</table>

### General information

This product has low toxicity.

### Ingestion

May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

### Skin contact

Skin irritation should not occur when used as recommended. Prolonged or repeated exposure may cause the following adverse effects: Irritation. Redness. Dryness and/or cracking. Mild dermatitis, allergic skin rash.

### Eye contact

Irritating to eyes. May cause serious eye damage. Severe irritation, burning, tearing and blurred vision. Corneal damage.

### Toxicological information on ingredients.

**D-GLUCOPYRANOSE, OLIGOMERIC, CS-10 GLYCOSIDES**
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Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 2,001.0
Species Rat
ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0
Species Rabbit
ATE dermal (mg/kg) 2,001.0

Skin sensitisation
Skin sensitisation Not sensitising. REACH dossier information.

Germ cell mutagenicity
Genotoxicity - in vitro REACH dossier information. Negative.
Genotoxicity - in vivo REACH dossier information. Negative.

SECTION 12: Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

12.1. Toxicity
Toxicity Not considered toxic to fish.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hours: 100.81 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 101 mg/l, Daphnia magna
Acute toxicity - microorganisms EC₅₀, 6 hours: >560 mg/l,

Chronic aquatic toxicity
Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1 mg/l, Daphnia magna

12.2. Persistence and degradability
Persistence and degradability There are no data on the degradability of this product. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

Biodegradation  Water - Degradation 100%: 28 days

12.3. Bioaccumulative potential
Bioaccumulative potential  No data available on bioaccumulation.

Ecological information on ingredients.

**D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES**

Partition coefficient  log Pow: 1.72 REACH dossier information.

12.4. Mobility in soil
Mobility  The product is water-soluble and may spread in water systems.

Ecological information on ingredients.

**D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES**

Henry's law constant  0 Pa m^3/mol @ 25°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment  This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

**D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES**

Results of PBT and vPvB assessment  No data available.

12.6. Other adverse effects
Other adverse effects  None known.

Ecological information on ingredients.

**D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES**

Other adverse effects  None known.

### SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information  Do not discharge into drains or watercourses or onto the ground.

Disposal methods  Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

### SECTION 14: Transport information

General  The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

EU legislation

Guidance
Workplace Exposure Limits EH40.
ECHA Guidance on the Application of the CLP Criteria.
ECHA Guidance on the compilation of safety data sheets.
COSHH Essentials.

15.2. Chemical safety assessment
No information available.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
DNEL: Derived No Effect Level.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

Revision comments
New revision number applied to comply with Commission Regulation (EU) No 2015/830 Of 28 May 2015. NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date
10/07/2018

Revision
1

SDS number
21653

Hazard statements in full
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.