



## SAFETY DATA SHEET

### 750ml SUPER PROFESSIONAL LIMESCALE REMOVER H6

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

#### 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
UFI	UFI: HXK7-WJQ8-RKK9-G9D7

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

Identified uses	Limescale remover.
Uses advised against	Not for Oral Consumption. Do Not Mix With Bleach.

##### 1.3. Details of the supplier of the safety data sheet

Supplier	<p>Mirius™  A Coventry Group Company  Woodhams Road  Siskin Drive  Coventry  CV3 4FX</p> <p>Coventry Chemicals (Ireland) Limited  4th Floor  8-34 Percy Place  Dublin 4  Ireland  Tel: +44 (0) 02476 639 739  Fax: +44 (0) 02476 639 717  Email: sales@mirius.com</p>
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Contact person	For content of safety data sheet: sds@mirius.com
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##### 1.4. Emergency telephone number

Emergency telephone	+44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)
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National emergency telephone number	<p>UK:  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  Ireland: For information or to report a poisoning incident contact The National Poisons Information Centre (01 8092166)</p>
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (SI 2019 No. 720)

Physical hazards	Not Classified
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**Health hazards** Eye Dam. 1 - H318

**Environmental hazards** Not Classified

### 2.2. Label elements

#### Hazard pictograms



**Signal word** Danger

**Hazard statements** H318 Causes serious eye damage.

**Precautionary statements**

- P102 Keep out of reach of children.
- P103 Read label before use.
- P264 Wash contaminated skin thoroughly after handling.
- 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.
- 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

### 2.3. Other hazards

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

### SECTION 3: Composition/information on ingredients

### 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.

**Inhalation** Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. In combination with Bleach can produce Chlorine gas - Check for respiratory disorders.

**Ingestion** Unlikely exposure route without abuse. Symptoms will include, Sickness, possible Irritation of GI Tract. A soapy taste may be reported.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

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**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** Ensure skin and eyes are well rinsed to neutral pH. Check Mouth for evidence of irritation. If mixed with bleach may produce Chlorine Gas, check for respiratory disorders.

## 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 Bleach.

**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

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**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.

### 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)

<b>DNEL</b>	Available hazard data do not support the need for a DNEL to be established for other health effects.
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.44 mg/l</li> <li>- marine water; 0.044 mg/l</li> <li>- STP; &gt;1000 mg/l</li> <li>- Sediment (Freshwater); 34.6 mg/kg</li> <li>- Sediment (Marinewater); 3.46 mg/kg</li> <li>- Soil; 33.1</li> </ul>

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

<b>DNEL</b>	<p>Workers - Inhalation; Long term systemic effects: 420 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 595000 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 124 mg/m<sup>3</sup></p> <p>General population - Dermal; Long term systemic effects: 357000 mg/kg</p> <p>General population - Oral; Long term systemic effects: 35.7 mg/kg</p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.176 mg/l</li> <li>- marine water; 0.0176 mg/l</li> <li>- Intermittent release; 0.27 mg/l</li> <li>- STP; 560 mg/l</li> <li>- Sediment (Freshwater); 1.516 mg/l</li> <li>- Sediment (Marinewater); 0.152 mg/l</li> </ul>

### 8.2. Exposure controls

#### Protective equipment



#### 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 that provides appropriate eye and face protection should be worn.

#### 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, wear gloves that are proven to be impervious to the chemical and resist degradation. A break through time of >60 minutes is suggested. Gloves should be inspected regularly for damage.

#### 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.

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**Hygiene measures** 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.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear Colourless.
<b>Odour</b>	Perfumed.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (concentrated solution): 2-4
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not determined but expected to be >90 Degrees C.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	~ 1.010
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not applicable
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information given is applicable to the product as supplied.

#### 9.2. Other information

**Other information** Not relevant.

### SECTION 10: Stability and reactivity

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### 10.1. Reactivity

**Reactivity** Under normal storage conditions this product is stable.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Mixing with Hypochlorite Bleach based products will produce toxic Chlorine gas.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with hypochlorite bleach products. Avoid contact with alkalis.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Information given is based on data of the components and of similar products.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not classified. Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage. Calculation method.

#### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising. Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Not classified. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

#### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

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### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

<b>General information</b>	This product has low toxicity.
<b>Inhalation</b>	The product is considered to be a low hazard under normal conditions of use. Note contact with Bleach may produce toxic Chlorine Gas.
<b>Ingestion</b>	May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting.
<b>Skin contact</b>	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.
<b>Eye contact</b>	Irritating to eyes. May cause serious eye damage. Severe irritation, burning, tearing and blurred vision. Corneal damage.

### 11.2 Information on other hazards

<b>11.2.1. Endocrine disrupting properties</b>	This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).
<b>11.2.2 Other information</b>	None known

### Toxicological information on ingredients.

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

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,001.0

**Species** Rat

**ATE oral (mg/kg)** 2,001.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> 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** Not regarded as dangerous for the environment.

#### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

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### Ecological information on ingredients.

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

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 100.81 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 101 mg/l, Daphnia magna

**Acute toxicity - microorganisms** EC<sub>50</sub>, 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** The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

### Ecological information on ingredients.

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

**Biodegradation** Water - Degradation 100%: 28 days

### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not applicable.

### 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<sup>3</sup>/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.

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

### Ecological information on ingredients.

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



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**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. Normal use solutions are expected to be flushed to sewers. 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)

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** Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

## SECTION 15: Regulatory information

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

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<b>National regulations</b>	<p>GB (UK) CLP and REACH Regulations. EH40/2005 Workplace exposure limits. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended). The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 696) (as amended). The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended). The Hazardous Waste Regulations 2005. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</p>
<b>EU legislation</b>	<p>European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended) European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended) European Regulation (EC) No 648/2004 on detergents (as amended) Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006.</p>
<b>Guidance</b>	<p>Workplace Exposure Limits EH40. ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets. COSHH Essentials. Technical Guidance WM2: Hazardous Waste.</p>

### 15.2. Chemical safety assessment

No information available.

## SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>DNEL: Derived No Effect Level. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p>
<b>Revision comments</b>	<p>NOTE: Lines within the margin indicate significant changes from the previous revision. Review of SDS with no change of classification. Note: Finished product SDS take their revision history from the parent bulk liquid SDS. The revision data will show that of the parent liquid.</p>
<b>Revision date</b>	21/03/2024
<b>Revision</b>	2
<b>Supersedes date</b>	10/07/2018
<b>SDS number</b>	21653
<b>Hazard statements in full</b>	H318 Causes serious eye damage.

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.

----- END OF SDS -----