



## SAFETY DATA SHEET

### Techscale

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

##### 1.1. Product identifier

Product name	Techscale
Product number	M0085RZD
Superconcentrated Detergent	Removal of Corrosion, Atmospheric Tarnish & De-Scaler (Hard Water)

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

Identified uses	Detergent.
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##### 1.3. Details of the supplier of the safety data sheet

Supplier	Rozone Ltd Queen Street Darlaston Wednesbury West Midlands WS10 8JF Tel: 0121 526 8181 info@rozone.co.uk
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##### 1.4. Emergency telephone number

Emergency telephone	Techtron Ltd: 01244 281 628 (Mon-Fri 09.00 - 17.00)
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#### SECTION 2: Hazards identification

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

Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335
Environmental hazards	Aquatic Chronic 3 - H412

##### 2.2. Label elements

Hazard pictograms



Signal word

Warning

Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

## Techscale

Precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p>
Contains	HYDROCHLORIC ACID ...%
Supplementary precautionary statements	<p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>

### 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

HYDROCHLORIC ACID ...% CAS number: 7647-01-0                      EC number: 231-595-7	10-30%
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
BENZYL C12-16 ALKYL DIMETHYL CHLORIDE CAS number: 68424-85-1                      EC number: 270-325-2 M factor (Acute) = 1                      M factor (Chronic) = 1	<1%
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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	Get medical attention immediately.
Inhalation	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

## Techscale

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation Coughing, chest tightness, feeling of chest pressure. Irritation of nose, throat and airway.

Ingestion May cause chemical burns in mouth and throat.

Skin contact May cause serious chemical burns to the skin.

Eye contact May cause severe eye irritation. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor Treat symptomatically.

## 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.

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

Specific hazards Not known. No unusual fire or explosion hazards noted.

Hazardous combustion products Heating may generate the following products: Carbon monoxide (CO). Oxides of nitrogen. Isocyanates.

### 5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

## SECTION 6: Accidental release measures

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Environmental precautions Avoid or minimise the creation of any environmental contamination.

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

Methods for cleaning up Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.4. Reference to other sections

Reference to other sections See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13. For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin, eyes and clothing.

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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

### 7.3. Specific end use(s)

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

## Techscale

Usage description	<p>Techscale has been formulated as a medium duty water scale remover. It is particularly suitable for cleaning ferrous metal heat exchangers and is specifically inhibited to reduce attack on the base during the cleaning/descaling process.</p> <p>Techscale is particularly useful when used to remove concrete stains, light cement accumulation and to clean efflorescence from brickwork, shuttering and mixing equipment.</p> <p>How to Use: - Use the following dilution rates:          Cement Removal – 1 part Techscale to 3 parts water          Descaling – 1 part Techscale to 10 parts water          Brick Cleaning – 1 part Techscale to 15 parts water</p>
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### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

Occupational exposure limits

HYDROCHLORIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m<sup>3</sup> gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m<sup>3</sup> gas and aerosol mists

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

#### HYDROCHLORIC ACID ...% (CAS: 7647-01-0)

DNEL	<p>Industry - Inhalation; Long term local effects: 8 mg/m<sup>3</sup>          Industry - Inhalation; Short term local effects: 15 mg/m<sup>3</sup></p>
PNEC	<p>- Fresh water; 36 µg/l          - marine water; 36 µg/l          - Intermittent release; 45 µg/l          - STP; 36 µg/l</p>

#### 8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Use protective gloves.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures	Provide eyewash station and safety shower. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### SECTION 9: Physical and chemical properties

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

Appearance	Liquid.
Colour	Straw.
Odour	Pungent.
pH	pH (concentrated solution): <2.00

## Techscale

Relative density 1.060 @ °C

Solubility(ies) Soluble in water.

### 9.2. Other information

Other information No information required.

## 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 and when used as recommended.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid contact with acids.

### 10.5. Incompatible materials

Materials to avoid Alkalis.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

### 12.4. Mobility in soil

Mobility The product is soluble in water. The product is miscible with water. May spread in water systems.

### 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. Other adverse effects

Other adverse effects Not determined.

## Techscale

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal methods                      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 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

National regulations                      The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 as amended.  
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 as amended  
Control of Substances Hazardous to Health Regulations 2002 (as amended).  
EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

Revision date                              22/07/2021  
Revision                                      2  
Supersedes date                          03/01/2013

## Techscale

### Hazard statements in full

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.