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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: Renovate Deskale
- Product Part Number: R-DESK

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

- Use of the substance/mixture: Descaler

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

- Name of Supplier: Chemisphere UK Ltd
- Address of Supplier: Unit 4 Richmond Road  
Trafford Park  
Manchester  
M17 1RE
- Telephone: +44 (0) 161 874 7200
- Responsible Person: Wilfred Worsley
- Email: safetydata@chemisphereuk.co.uk

#### 1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 776 724 8499
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- CLP: Acute Tox. 4, Skin Corr. 1A

#### 2.2 Label elements



GHS05



GHS07

- Signal Word: Danger
- Hazard statements  
Causes severe skin burns and eye damage.  
Harmful if swallowed or if inhaled
- Precautionary statements  
Keep out of reach of children.  
Store locked up.  
Do not breathe fumes  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.

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**SECTION 2: Hazards identification (....)**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If skin irritation occurs: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

Contains: Hydrochlorid acid

- Supplemental Hazard information (EU)  
None

**2.3 Hazards identification**

- Not a PBT according to REACH Annex XIII
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**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

- Tallow alkylamine ethoxylate  
CAS Number: 61791-26-2  
EC Number: 500-153-8  
Concentration: <1%  
Categories: Acute Tox. 2, Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2  
H Statements: H302;H330;H316;H411
- Formaldehyde, reaction products with oleylamine  
CAS Number: 91782-77-3  
EC Number: 295-051-0  
Concentration: < 0.1%  
Categories: Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1  
H Statements: H302;H314;H318
- Prop-2-yn-1-ol; propargyl alcohol  
CAS Number: 107-19-7  
EC Number: 203-471-2  
Concentration: < 0.1%  
Categories: Flam. Liq. 3, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Aquatic Chronic 2  
H Statements: H226;H331;H311;H301;H314;H411  
Symbols: GHS02;GHS06;GHS05;GHS09
- Formaldehyde ...%  
CAS Number: 50-00-0  
EC Number: 200-001-8  
Concentration: < 0.01%

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### **SECTION 3: Composition/information on ingredients (....)**

Categories: Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Muta. 2, Carc. 1B

H Statements: H350;H341;H331;H311;H301;H314;H317

Symbols: GHS08;GHS06;GHS05

- Hydrochlorid acid

CAS Number: 7647-01-0

EC Number: 231-595-7

Concentration: 10 - 30%

Categories: Press. Gas, Skin Corr. 1A

H Statements: H331;H314

Symbols: GHS04;GHS06;GHS05

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### **SECTION 4: First aid measures**

#### **4.1 Description of first aid measures**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

- Contact with eyes
  - Causes severe burns
  - Risk of serious damage to eyes
  - May cause permanent damage if eye is not immediately irrigated.
- Ingestion
  - Causes severe burns
  - Causes damage to the digestive tract if swallowed
  - Harmful if swallowed
- Inhalation
  - Corrosive to the respiratory tract.
  - Can cause damage to the respiratory system
  - Harmful if inhaled.
- Contact with skin
  - Corrosive to skin
  - Causes severe burns

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

- If medical advice is needed, have product container or label at hand.

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

## **SECTION 5: Firefighting measures (....)**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

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

- May give off noxious and toxic fumes in a fire

### **5.3 Advice for firefighters**

- Wear chemical protection suit and breathing apparatus
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## **SECTION 6: Accidental release measures**

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

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes
- Avoid breathing dust/fume/gas/mist/vapours/spray.

### **6.2 Environmental precautions**

- For large spills:. Do not allow product to enter drains. For small spills:. Flush down the drain with plenty of water.

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

- Absorb spillage in inert material and shovel up

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

- Wear protective clothing as per section 8
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## **SECTION 7: Handling and storage**

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

- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid contact with skin and eyes
- Do not breathe vapour/fumes
- Do not mix with any other products
- Proper chemicals handling procedures should be adopted
- Handle and open container with care
- Ensure adequate ventilation

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

- Keep locked up and out of reach of children
- Keep only in the original container in a cool, well ventilated place
- Protect from sunlight.
- Incompatible with alkalis (strong bases)

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

- Descaling boilers, ware washing machines, ice making machines and beverage making equipment.
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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

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**SECTION 8: Exposure controls/personal protection (....)**

- Formaldehyde ...%
  - DNEL (inhalational): 1 mg/m<sup>3</sup>
  - DNEL (Industry; dermal, long term systemic effects): 240 mg/kg bw/day
  - DNEL (Industry; inhalational, long term systemic effects): 9 mg/m<sup>3</sup>
  - DNEL (Consumer; dermal, long term systemic effects): 102 mg/kg bw/day
  - DNEL (Consumer; inhalational, long term systemic effects): 3.2 mg/m<sup>3</sup>
  - DNEL (oral): 4.1 mg/kg bw/day
  - DNEL (Consumer; inhalational, long term local effects): 0.1 mg/m<sup>3</sup>
- Hydrochlorid acid
  - DNEL (Consumer; inhalational, short term local effects): 15 mg/m<sup>3</sup>
  - DNEL (Consumer; inhalational, long term local effects): 8 mg/m<sup>3</sup>

**8.2 Exposure controls**

- Wear protective gloves/protective clothing/eye protection/face protection.

**Gloves****Goggles**

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance: Liquid, red
- Odour: Pungent odour
- pH: <1
- Density: 1.28 g/cm<sup>3</sup> at 20 deg C
- Conductivity: Not available
- Solubility in water: Soluble in water
- Flammability: Not flammable

**9.2 Other information**

- No information available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Reacts with alkalis (strong bases)
- Reacts with strong oxidizing substances

**10.2 Chemical stability**

- Considered stable under normal conditions

**10.3 Possibility of hazardous reactions**

- Contact with alkalis (strong bases) liberates toxic gas
- Contact with oxidizing substances liberates toxic gas

## SECTION 10: Stability and reactivity (....)

### 10.4 Conditions to avoid

- Keep away from heat, light and moisture

### 10.5 Incompatible materials

- Avoid contact with alkalis (strong bases)
- Avoid contact with oxidising substances

### 10.6 Hazardous decomposition products

- Decomposition products may include hydrogen chloride
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## SECTION 11: Toxicological information

### 11.1 Contact with eyes

- Causes serious eye damage.

### 11.2 Ingestion

- Causes damage to the digestive tract
- Causes damage to the stomach lining
- Harmful if swallowed

### 11.3 Inhalation

- Corrosive to the respiratory tract.
- Harmful if inhaled.

### 11.4 Contact with skin

- Causes severe burns

### 11.5 Information on toxicological effects

- Tallow alkylamine ethoxylate  
LD50 (oral, rat): > 300 - 2000 mg/kg  
LCLo (inhalation) : 0.473 mg/l/4h
  - Prop-2-yn-1-ol; propargyl alcohol  
LD50 (oral, rat): 56.4 mg/kg  
LD50 (dermal, rabbit): 88 mg/kg
  - Formaldehyde ...%  
LD50 (oral, rat): > 300 - 2000 mg/kg
  - Hydrochlorid acid  
LD50 (dermal, rabbit): > 5010 mg/kg
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## SECTION 12: Ecological information

### 12.1 Toxicity

- Tallow alkylamine ethoxylate  
IC50 (algae): 1-10 mg/l (72 hr)
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## SECTION 12: Ecological information (....)

EC50 (daphnia): 1-10 mg/l (48 hr)

LC50 (fish): 1-10 mg/l (96 hr)

- Prop-2-yn-1-ol; propargyl alcohol  
IC50 (algae): 98.1 mg/l (72 hr)  
EC50 (daphnia): 3.36 mg/l (48 hr)  
LC50 (fish): 1.53 mg/l (96 hr)
- Formaldehyde ...%  
EC50 (daphnia): 5.8 mg/l (48 hr)  
LC50 (fish): 1.41 mg/l (96 hr)

### 12.2 Persistence and degradability

- Not readily biodegradable

### 12.3 Bioaccumulative potential

- No information available

### 12.4 Mobility in soil

- Soluble in water

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other adverse effects

- No information available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

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## SECTION 14: Transport information



Corrosive

### 14.1 UN number

- UN No.: 1789

### 14.2 Proper Shipping Name

- Proper Shipping Name: HYDROCHLORIC ACID (solution)

### 14.3 Transport hazard class(es)

- Hazard Class: 8

### 14.4 Packing group

## SECTION 14: Transport information (....)

- Packing Group: II.

### 14.5 Environmental hazards

- None assigned

### 14.6 Special precautions for user

- Identification Number: 80
- IMDG EmS: F-A, S-B
- Tunnel Code: (E)
- Contains: Hydrochloric acid

### 14.7 Emergency Action Code

- 2R

### 14.8 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable
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## SECTION 15: Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

### 15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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## SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H316: Causes mild skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H330: Fatal if inhaled. H331: Toxic if inhaled. H341: Suspected of causing genetic defects. H350: May cause cancer. H411: Toxic to aquatic life with long lasting effects.

**The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.**

--- end of safety datasheet ---

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