

# SAFETY DATA SHEET

## DESCALER FOR UTENSIL WASHING MACHINES

According to Regulation (EU) No 453/2010

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

**Product name** DESCALER FOR UTENSIL WASHING MACHINES  
**Product No.** TCD401

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

**Identified uses** Descaler.

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

**Supplier** Kitchenmaster NI Ltd  
11 Comber Road  
Belfast  
BT8 8AN  
Tel. 028 90814777  
Fax. 028 90812881  
email: sds@kitchenmaster-ni.com

#### 1.4. Emergency telephone number

028 9081 4777  
08:30 - 17:00 Monday to Thursday  
08:30 - 16:30 Friday

### SECTION 2: HAZARDS IDENTIFICATION

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

**Classification (1999/45/EEC)** Xi;R36/37/38.

##### Human health

Irritating to eyes, respiratory system and skin.

##### Environment

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### 2.2. Label elements

##### Labelling



Irritant

##### Risk Phrases

R36/37/38

Irritating to eyes, respiratory system and skin.

##### Safety Phrases

S24/25

Avoid contact with skin and eyes.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37

Wear suitable gloves.

S51

Use only in well-ventilated areas.

S60

This material and its container must be disposed of as hazardous waste.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

# DESCALER FOR UTENSIL WASHING MACHINES

<b>COPPER SULPHATE</b> < 1	
<b>CAS-No.: 7758-98-7</b>	<b>EC No.: 231-847-6</b>
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) Xn;R22 Xi;R36/38 N;R50/53
<b>HYDROCHLORIC ACID ...%</b> 10-30%	
<b>CAS-No.: 7647-01-0</b>	<b>EC No.: 231-595-7</b>
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R34 Xi;R37

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

#### **Inhalation**

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

#### **Ingestion**

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention.

#### **Skin contact**

Remove victim immediately from source of exposure. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

#### **Eye contact**

May cause blurred vision and serious eye damage. Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

#### **Inhalation.**

Spray mists may cause respiratory tract irritation.

#### **Ingestion**

May cause discomfort if swallowed. May cause internal injury.

#### **Skin contact**

Skin irritation.

#### **Eye contact**

Irritating to eyes.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Extinguishing media**

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

#### **Unsuitable extinguishing media**

Not relevant

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

#### **Hazardous combustion products**

Fire creates: Hydrogen chloride (HCl).

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## Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

## Specific hazards

Fire creates: Hydrogen chloride (HCl).

## 5.3. Advice for firefighters

### Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep run-off water out of sewers and water sources. Dike for water control.

### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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

### 6.2. Environmental precautions

Avoid discharge to the aquatic environment.

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

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### 6.4. Reference to other sections

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

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wash hands after handling.

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

Store in tightly closed original container in a dry, cool and well-ventilated place.

### 7.3. 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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HYDROCHLORIC ACID ...%	WEL	1 ppm	2 mg/m <sup>3</sup>	5 ppm	8 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

Provide adequate ventilation.

#### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

#### Hand protection

Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

#### Eye protection

Wear approved safety goggles.

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## Hygiene measures

Wash hands after handling. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance** Liquid  
**Odour** Characteristic.

### 9.2. Other information

Not determined.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Alkalis.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

#### Hazardous Polymerisation

Not relevant

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid contact with: Alkalis.

### 10.5. Incompatible materials

#### Materials To Avoid

In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Inhalation

Irritating to respiratory system.

#### Ingestion

May cause discomfort if swallowed. May cause internal injury.

#### Skin contact

Irritating to skin.

#### Eye contact

Irritating to eyes.

#### Toxicological information on ingredients.

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

##### Acute toxicity:

##### **Acute Toxicity (Oral LD50)**

Scientifically unjustified.

REACH dossier information

##### **Acute Toxicity (Dermal LD50)**

Scientifically unjustified.

REACH dossier information

##### **Acute Toxicity (Inhalation LC50)**

45.6 mg/L (aerosol) Rat 5 minutes

REACH dossier information

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COPPER SULPHATE (CAS: 7758-98-7)

## Acute toxicity:

### **Acute Toxicity (Oral LD50)**

481 mg/kg Rat

REACH dossier information

### **Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rat

REACH dossier information

## SECTION 12: ECOLOGICAL INFORMATION

### **Ecotoxicity**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

### **12.1. Toxicity**

#### Ecological information on ingredients.

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

##### **Acute Toxicity - Fish**

LC50 96 hours 3.25 pH *Lepomis macrochirus* (Bluegill)

REACH dossier information

##### **Acute Toxicity - Aquatic Invertebrates**

EC50 48 hours 4.92 pH *Daphnia magna*

REACH dossier information

##### **Acute Toxicity - Aquatic Plants**

EC50 72 hours 4.82 pH *Chlorella vulgaris*

REACH dossier information

NOEC 72 hours 5 pH *Chlorella vulgaris*

REACH dossier information

#### COPPER SULPHATE (CAS: 7758-98-7)

##### **Acute Toxicity - Fish**

LC50 96 hours 2.8 µg/L *Onchorhynchus mykiss* (Rainbow trout)

REACH dossier information

##### **Acute Toxicity - Aquatic Invertebrates**

LC50 48 hours 14 µg/L *Daphnia magna*

REACH dossier information

##### **Acute Toxicity - Aquatic Plants**

NOEC 72 hours 5.7 µg/L *Skeletonema costatum*

REACH dossier information

### **12.2. Persistence and degradability**

#### **Degradability**

There are no data on the degradability of this product.

### **12.3. Bioaccumulative potential**

#### **Bioaccumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility:**

The product is soluble in water.

### **12.5. Results of PBT and vPvB assessment**

Not determined.

### **12.6. Other adverse effects**

Not determined.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN) 1789

UN No. (IMDG) 1789

UN No. (ICAO) 1789

### 14.2. UN proper shipping name

Proper Shipping Name HYDROCHLORIC ACID

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class 8

ADR/RID/ADN Class Class 8: Corrosive substances.

ADR Label No. 8

IMDG Class 8

ICAO Class/Division 8

Transport Labels



### 14.4. Packing group

ADR/RID/ADN Packing group III

IMDG Packing group III

ICAO Packing group III

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

### 14.6. Special precautions for user

EMS F-A, S-B

Emergency Action Code 2R

Hazard No. (ADR) 80

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

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

#### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

# DESCALER FOR UTENSIL WASHING MACHINES

## Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## Guidance Notes

Workplace Exposure Limits EH40.

## EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### Revision Comments

Re-issued according to Regulation (EU) No 453/2010.

**Revision Date** 04-2012

**Revision** 2

**Supersedes date** 05-2008

### Risk Phrases In Full

R34	Causes burns.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard Statements In Full

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