

SAFETY DATA SHEET DESCALE POWDER

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 DESCALE POWDER
 CAS-No. 5329-14-6
 EC No. 226-218-8

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;R36/38. R52/53.

Human health

The product is irritating to eyes and skin.

Environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

EC No. 226-218-8

Labelling



Irritant

Risk Phrases

R36/38	Irritating to eyes and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
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

DESCALE POWDER

SULPHAMIC ACID		95-100 %
CAS-No.: 5329-14-6	EC No.: 226-218-8	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xi;R36/38 R52/53	

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

CAS-No. 5329-14-6

EC No. 226-218-8

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. Do not induce vomiting. Drink plenty of water. 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

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 and get medical attention.

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

Inhalation.

Dust may irritate respiratory system.

Ingestion

May cause discomfort if swallowed.

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 available.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire creates: Ammonia. Nitrous gases (NOx). Sulphurous gases (SOx).

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Fire creates: Ammonia. Nitrous gases (NOx). Sulphurous gases (SOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures

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.

DESCALE POWDER

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

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities. Avoid generation and spreading of dust. 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 inhalation of dust and contact with skin and eyes. 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

Ingredient Comments

No exposure limits noted for ingredient(s).

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.

Hygiene measures

Wash hands after contact. 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	Solid
Colour	White.
Odour	Characteristic. Odourless.
Solubility	Soluble in water.
Melting point (°C)	~ 190°C
Relative density	2.1 @ 20°C

DESCALE POWDER

Bulk Density	1, 000 - 13000 kg/m ³
pH-Value, Conc. Solution	~ 1.2 @ 10 g/l & 20°C
Solubility Value (G/100G H ₂ O@20°C)	21.3 @ 20°C

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Strong oxidising agents.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Protect against direct sunlight. Extremes of temperature.

10.5. Incompatible materials

Materials To Avoid

In contact with some metals (such as aluminium and zinc and their alloys) generates hydrogen gas, which together with air can form explosive mixtures.

10.6. Hazardous decomposition products

None at ambient temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

May cause discomfort if swallowed.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes.

Toxicological information on ingredients.

SULPHAMIC ACID (CAS: 5329-14-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

REACH dossier information

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

SULPHAMIC ACID (CAS: 5329-14-6)

Acute Toxicity - Fish

LC50 96 hours 70.3 mg/l Pimephales promelas (Fat-head Minnow)

REACH dossier information

DESCALE POWDER

12.2. Persistence and degradability

Degradability

Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential

Bioaccumulation is not expected.

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

Does not cause biological oxygen deficit.

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)	2967
UN No. (IMDG)	2967
UN No. (ICAO)	2967

14.2. UN proper shipping name

Proper Shipping Name SULPHAMIC 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

DESCALE POWDER

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X
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).

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

This is first issue.

Revision Date	01-2012
----------------------	---------

Risk Phrases In Full

R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.

Hazard Statements In Full

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