

SAFETY DATA SHEET

RENOVIVE GLASSWASH DETERGENT SANITIZER

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 RENOVIVE GLASSWASH DETERGENT SANITIZER
Product No. GRARENO

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

Identified uses Cleaning agent.

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

Irritating to eyes and skin.

Environment

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

Physical and Chemical Hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.2. Label elements

Detergent Labelling:

$\geq 30\%$ phosphates
 $< 5\%$ chlorine-based bleaching agents

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

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S24/25 Avoid contact with skin and eyes.
S60 This material and its container must be disposed of as hazardous waste.
P6 Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

RENOVIVE GLASSWASH DETERGENT SANITIZER

3.2. Mixtures

DISODIUM METASILICATE 5-10%	
CAS-No.: 6834-92-0	EC No.: 229-912-9
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) C;R34 Xi;R37
SODIUM DICHLOROISOCYANURATE 1-5%	
CAS-No.: 2893-78-9	EC No.: 220-767-7
Classification (EC 1272/2008) Ox. Liq. 2 - H272 EUH031 Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) O;R8 Xn;R22 Xi;R36/37 R31 N;R50/53

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 if any discomfort continues.

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. Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if any discomfort continues.

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

Inhalation.

Dust may irritate respiratory system or lungs.

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 relevant

5.2. Special hazards arising from the substance or mixture

RENOVIVE GLASSWASH DETERGENT SANITIZER

Hazardous combustion products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorine.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorine.

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.

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.

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 handling which leads to dust formation. 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.

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.

RENOVIVE GLASSWASH DETERGENT SANITIZER

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Crystalline powder.

Odour Characteristic.

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Acids.

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

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong acids.

10.6. Hazardous decomposition products

None under normal conditions.

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.

DISODIUM METASILICATE (CAS: 6834-92-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

994 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

> 3000 mg/kg Rat

REACH dossier information

Acute Toxicity (Inhalation LC50)

> 2.06 mg/l (vapours) Rat

REACH dossier information

RENOVIVE GLASSWASH DETERGENT SANITIZER

SODIUM DICHLOROISOCYANURATE (CAS: 2893-78-9)

Acute toxicity:

Acute Toxicity (Oral LD50)

1823 mg/kg Rat

REACH dossier information

Acute Toxicity (Dermal LD50)

> 5000 mg/kg Rat

REACH dossier information

Acute Toxicity (Inhalation LC50)

> 0.27 mg/l (dust/mist) Rat 4 hours

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.

DISODIUM METASILICATE (CAS: 6834-92-0)

Acute Toxicity - Fish

LC50 96 hours 210 mg/l Brachydanio rerio (Zebra Fish)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 7.8 pH Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours 207 mg/l Desmodosmus subspicatus

REACH dossier information

SODIUM DICHLOROISOCYANURATE (CAS: 2893-78-9)

Acute Toxicity - Fish

LC50 96 hours > 1000 mg/l Lepomis macrochirus (Bluegill)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

LC50 48 hours > 1000 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours > 100 mg/l Skeletonema costatum

REACH dossier information

NOEC 72 hours 100 mg/l Skeletonema costatum

REACH dossier information

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

Ecological information on ingredients.

DISODIUM METASILICATE (CAS: 6834-92-0)

Biodegradation

Scientifically unjustified.

REACH dossier information

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

RENOVIVE GLASSWASH DETERGENT SANITIZER

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not determined.

12.6. Other adverse effects

Not determined.

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

General

The product is not covered by international regulation 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)

Not applicable.

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 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

RENOVIVE GLASSWASH DETERGENT SANITIZER

Revision Comments

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

Revision Date 04-2012

Revision 2

Supersedes date 07-2008

Risk Phrases In Full

R34 Causes burns.
R31 Contact with acids liberates toxic gas.
R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/37 Irritating to eyes and respiratory system.
R36/38 Irritating to eyes 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.
EUH031 Contact with acids liberates toxic gas.
H302 Harmful if swallowed.
H412 Harmful to aquatic life with long lasting effects.
H335 May cause respiratory irritation.
H272 May intensify fire; oxidiser.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.