



1. Identification of the substance/mixture & of the company/undertaking

1.1 Product Identifier

Product Name: **Destainer and Renovator**
Product Code: **GRE050DEL01R (concentrate)**

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

Use of the Substance/Mixture: **Sanitising hard surface cleaner.**
Recommended restrictions on use: **We do not have information on restrictions. They will be included when available.**

1.3 Details of the supplier of the safety data sheet

Company: **Delphis Eco, Unit 1, River Reach, Gartons Way, London SW11 3SX**

1.4 Emergency telephone number

Emergency phone number: **t. 0203 397 0096 (office hours only) f. 0870 974 7219 e. sales@delphiseco.com**

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification under CLP: **Skin Corr. 1A: H314; Aquatic Acute 1: H400; -: EUH031**
Most important adverse effects: **Causes severe burns. Very toxic to aquatic organisms.**

2.2 Label elements

Hazard statements: **EUH031: Contact with acids liberates toxic gas.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.**

Signal words: **Danger**

Hazard pictograms: **GHS05: Corrosion
GHS09: Environmental**

Precautionary statements: **P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor/first aider.
P391: Collect spillage.**



2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

3. Composition/Information on Ingredients

3.2 Mixtures

Ingredient Name	EINECS	CAS	CLP Classification	Percent
POTASSIUM HYDROXIDE (REACH registered number(s): 01-2119487136-33)	215-181-3	1310-58-3	Acute Tox. 4: H302; Skin Corr. 1A: H314	5-10%
SODIUM HYPOCHLORITE SOLUTION CL ACTIVE	231-668-3	7681-52-9	Skin Corr. 1B: H314; Aquatic Acute 1: H400; -: EUH031	1-5%
2-PHOSPHONOBUTANE-1,2, 4-TRICARBOXYLIC ACID (REACH registered number(s): 01-2119436643-39)	253-733-5	37971-36-1	Met. Corr. 1: H290; Eye Irrit. 2: H319	1-5%

4. First Aid Measures

4.1 Description of first aid measures

Eye contact: **Avoid contact with eyes, if product gets into eyes, rinse with water.**
Skin contact: **Avoid contact with skin, if product gets onto skin wash with water and remove contaminated clothing.**
Ingestion: **Do not drink, if swallowed drinking water may be beneficial, do not induce vomiting.**
Inhalation: **Avoid inhaling product, move to fresh air if in discomfort.**

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: **Irritation or pain may occur at the site of contact. Severe burns may occur.**



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Eye contact: There may be severe pain. Corneal burns may occur. May cause permanent damage.
Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.
Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing Media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3 Advice for fire fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: If outside keep bystanders upwind and away from danger point. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

7. Handling and Storage

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3 Specific end uses

8. Exposure Controls/Personal Protection

8.1 Control parameters

Hazardous ingredients: POTASSIUM HYDROXIDE

Workplace exposure limits:

	8 hour TWA	15 min. STEL	Respirable dust	8 hour TWA	15 min. STEL
State					
UK	-	2 mg/m ³	-	-	-

DNEL / PNEC Values: No data available.

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Not normally required. However, inhalation of vapour or spray should be avoided.

Hand protection: Wear protective gloves.

Eye protection: Wear safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Wear protective clothing.



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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

State: Liquid
Colour: Pale green
Odour: Pungent
Evaporation rate: Slow
Oxidising: No data available.
Solubility in water: Soluble
Viscosity: Non-viscous
Boiling point/range°C: 100
Flammability limits %: lower: Not applicable
Flash point°C: Not applicable
Autoflammability°C: Not applicable
Relative density: 1.175
VOC g/l: Not applicable
Melting point/range°C: 0
upper: Not applicable
Part.coeff. n-octanol/water: No data available
Vapour pressure: No data available
pH: 13.5

9.2 Other Information

Other information: No data available.

10. Stability and Reactivity.

10.1 Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2 Chemical Stability

Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions: Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to Avoid

Conditions to avoid: Direct sunlight. Heat. Light.

10.5 Incompatible materials

Materials to avoid: Acids. Reducing agents. Acid anhydrides. Copper. Nickel. Iron. Organic materials.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of hydrogen chloride / phosgene. Contact with acids liberates toxic gas.

11. Toxicological Information.

11.1 Information on toxicological effects

Hazardous ingredients:

POTASSIUM HYDROXIDE

ORL RAT LD50 273 mg/kg

SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL MUS LD50 5800 mg/kg

2-PHOSPHONOBUTANE-1,2,4-TRICARBOXYLIC ACID

DERMAL RBT LD50 >4000 mg/kg

ORAL RAT LD50 >6500 mg/kg

VAPOURS RAT 4H LC50 >1900 mg/l

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Skin contact: Irritation or pain may occur at the site of contact. Severe burns may occur.

Eye contact: There may be severe pain. Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain



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Inhalation: may occur. There may be vomiting and diarrhoea.
There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

12. Ecological Information

12.1 Toxicity

Hazardous ingredients:

POTASSIUM HYDROXIDE

DAPHNIA	48H EC50	40-240 mg/l
FISH	96H LC50	80-85 mg/l

2-PHOSPHONOBUTANE-1,2,4-TRICARBOXYLIC ACID

DAPHNIA	48H EC50	>1071 mg/l
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12.2 Persistence and Degradability

Persistence and degradability: Biodegradable in part only. Photodegradable.

12.3 Bio-accumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4 Mobility in soil

Mobility: Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

13. Disposal Recommendations

13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

14.1 UN number

UN number: UN1791

14.2 UN Proper shipping name

Shipping name: HYPOCHLORITE SOLUTION

14.3 Transport hazard classes

Transport class: 8

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6 Special precautions for user

Tunnel code: E

Transport category: 3

15. Regulatory Information

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

Specific regulations: Not applicable.

15.2 Chemical safety assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.



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16. Other Information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

- EUH031: Contact with acids liberates toxic gas.
- H290: May be corrosive to metals.
- H302: Harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H319: Causes serious eye irritation.
- H400: Very toxic to aquatic life.

Training Advice: Normal use of this product shall imply use in accordance with the instructions on the packaging. Users should be trained in good industrial hygiene practise. This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH). Do not mix with other chemicals.

Date: 01.06.15

Legal Disclaimer: The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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