Toilet **renovator**

Revision: 1
Revision date: 05/05/202

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

1.1 Product identifier

Product name	Toilet renovator

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

Product use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);

1.3 Details of the supplier of the safety data sheet

Company address	Personnel Hygiene Services Ltd Block B, Western Industrial Estate, Caerphilly CF83 1XH United Kingdom
Web	www.phsdirect.co.uk
Telephone	02920 809098
Email	productinfo@phs.co.uk / productinfo@phswashrooms.ie

1.4 Emergency telephone number

Emergency telephone number	028 9267 331. In the event of a medical enquiry involving this product, please contact your GP or local A&E dept. Ireland: National Poisons Centre, Beaumont Hospital, Dublin 9 Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Tel: 01 809 2566 (health care professionals)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.2 Classification - EC 1272/2008	Skin Corr. 1B: H314;

2.2 Label elements

Hazard pictograms	
Signal word	Danger
Hazard Statement	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Precautionary Statement: Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinseskin with water/shower.P305+P351+P338 - 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/ .P363 - Wash contaminated clothing before reuse.

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SECTION 2: Hazards identification (continued)

Precautionary Statement Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor orcollection site except for empty clean containers which can be disposed of as non-hazardouswaste.
Further information	Contains: hydrochloric acid.

SECTION 3: Composition/information on ingredients

3.2 Mixtures EC 1272/2008

Chemical name	Index No.	CAS No.	EC No.	REACH registration Number	Conc (%w/w)	Classification
Hydrochloric acid	017-002-01	7647-01-0	231-595-7	01-2119484862-27	1-10%	Skin Corr. 1B: H314; STOT SE 3: H335;
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)		8030-78-2	232-447-4		1-10%	Flam. Liq. 2: H225; Acute Tox. 4: H302; Skin Corr. 1B: H314; STOT SE 3: H336;Aquatic Acute 1: H400;

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Wash with water. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Irritant, Severe respiratory.
Eye contact	Causes severe burns.
Skin contact	Causes severe burns.
Ingestion	Causes severe burns.
4.3 Indication of any immediate medical attention and special treatment needed	No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Use as appropriate: Carbon dioxide (CO_2), Dry chemical, Foam.
5.2 Special hazards arising from the substance or mixture	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
5.3 Advice for firefighters	Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
6.2 Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
6.3 Methods and material for containment and cleaning up	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4 Reference to other sections	For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.
7.2 Conditions for safe storage, including any incompatibilities	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. For incompatibilities refer to section 10.4.
7.3 Specific end use(s)	No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure Limit Values - UK

Hydrochloric acid	WEL 8-hr limit mg/m3:	2
	WEL 8-hr limit ppm:	1
	WEL 15 min limit mg/m3:	8
	WEL 15 min limit ppm:	5

8.1.1 Occupational Exposure Limits Values (OELVs) - Ireland

Hydrochloric acid	Occupational Exposure Limit Value (8-hour reference period)	5 ppm8 mg/m3
	Occupational Exposure Limit Value (15-minute reference period)	10 ppm15 mg/m3

DNEL: Derived no-effect level.

SECTION 8: Exposure controls/personal protection (continued)

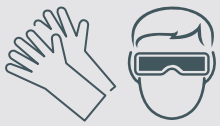
Exposure pattern - workers

Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Long-term - inhalation - Systemic	3.32 mg/m³
	Long-term - dermal - Systemic	4.7 mg/kg

Exposure pattern - General population

Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Long-term - inhalation - Systemic	0.98 mg/m³
	Long-term - dermal - Systemic	2.83 mg/kg
	Long-term - oral - Systemic effects	2.83 mg/kg

8.2 Exposure controls



Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands after handling the product.

8.2.1 Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2 Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Safety glasses. (EN166)
Skin protection - Hand protection	Chemical resistant gloves (PVC). (EN 374)
Respiratory protection	Not normally required. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Blue
Odour	Characteristic
pH	<1.5
Melting point	Not determined
Freezing Point	Not determined
Initial boiling point	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable to liquids
Fat Solubility	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Viscosity	400 cp @20°C
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Solubility	Soluble in water
Vapour pressure	Not determined

SECTION 9: Physical and chemical properties (continued)

9.2 Other information

Conductivity	Not determined
Surface tension	Not determined
Specific gravity	1.03 g/cm³

SECTION 10: Stability and reactivity

10.1 Reactivity	No reactivity hazards known under normal storage and use conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No other adverse effects known.
10.4 Conditions to avoid	Avoid contact with: Alkalis, Chlorine-based bleaching agents

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4 Toxicological Information

Hydrochloric acid	Inhalation Rat LC50/15min:	NDA	Dermal Rat LD50	NDA
	Oral Rat LD50:	900 mg/kg	Oral Mouse LD50:	NDA
	Dermal Rabbit LD50:	> 5010 mg/kg	Dermal Guinea Pig LD50	NDA
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Inhalation Rat LC50/15min:	NDA	Dermal Rat LD50:	NDA
	Oral Rat LD50:	1260 mg/kg	Oral Mouse LD50:	NDA
	Dermal Rabbit LD50:	NDA	Dermal Guinea Pig LD50:	NDA

SECTION 12: Ecological information

12.1 Toxicity

Hydrochloric acid	Daphnia EC50/48h:	0.4920 mg/l
	Lepomis_Macrochirus LC50/96h:	24.6 mg/l
	Algae IC50/72h:	0.78 mg/l
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Algae EC50/72h:	NDA
	Guppy LC50/96h	NDA
	Daphnia LC50/48h:	NDA

12.2 Persistence and degradability	No data is available on this product.
12.3 Bioaccumulative potential	No data is available on this product.
Partition coefficient	No data is available on this product.
12.4 Mobility in soil	No data is available on this product.
12.5 Results of PBT and vPvB assessment	Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.
12.6 Other adverse effects	No other adverse effects known.

SECTION 13: Disposal considerations	
General information	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Dispose of in compliance with all local and national regulations.Empty containers can be cleaned with water.
Further information	European Waste Catalogue: 20 01 14 acids.

SECTION 14: Transport information	
Hazard pictograms	
	
14.1 UN number	UN1789
14.2 UN proper shipping name	HYDROCHLORIC ACID
14.3 Transport hazard class(es)	
ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel category	E
IMDG	
EmS Code	F-A-S-B
IATA	
Packing Instruction (Cargo)	856
Maximum quantity	60L
Packing Instruction (Passenger)	852
Maximum quantity	5L

SECTION 15: Regulatory information

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

EU regulations:
• Regulation(EC)No.1907/2006 - REACH
• Regulation(EC)No1272/2008 - CLP
• Regulation(EC)No.648/2004 - Detergents regulation
Ingredients according to EC Detergents Regulation 648/2004
Less than 5%: Amphoteric Surfactants

15.2 Chemical safety assessment	A chemical safety assessment has not been carried out on the mixture.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: Changes to sections 1, 3, 8, 9, 11, 12, 15
Acronyms	LC: Lethal concentration. LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic. SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation

Further information

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 andbelief at the date of publication however no guarantee is made to its accuracy. This informationrelates only to the specific material designated and may not be valid for such material used incombination with any other materials or in any other process.

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