

SAFETY DATA SHEET

LIMESTONE RESTORER

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Compilation date: 24/08/2015

Revision date: 07/07/2015

Revision No: 1

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

1.1. Product identifier

Product name: LIMESTONE RESTORER

Product code: 22

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

Use of substance / mixture: PC35: Washing and cleaning products (including solvent based products).

1.3. Details of the supplier of the safety data sheet

Company name: Tensid UK Ltd
Unit 1 Craven Court
Canada Road
Byfleet
Surrey
KT14 7JI
United Kingdom
Tel: +44 (0)1932 564 133
Fax: +44 (0)1932 562 046
Email: info@tensid.com

1.4. Emergency telephone number

Emergency tel: +44 (0)1932 564 133

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; STOT SE 3: H335

Most important adverse effects: Causes severe skin burns and eye damage. May cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark



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Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
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.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HYDROCHLORIC ACID - REACH registered number(s): 01-2119458860-33-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-595-7	-	-	Skin Corr. 1B: H314; STOT SE 3: H335	10-30%

GLYCOLLIC ACID 100% - REACH registered number(s): 01-2119485579-17

201-180-5	79-14-1	-	Skin Corr. 1B: H314; Acute Tox. 4: H332	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult an eye specialist immediately Go to an ophthalmic hospital if possible
Ingestion: Wash out mouth with water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting Obtain medical attention.
Inhalation: If unconscious and breathing is OK, place in the recovery position. Ensure supply of fresh air

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

Skin contact: Corrosive effect
Eye contact: Corrosive effect Risk of serious damage to eyes
Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Gives off Hydrogen by reaction with metals In combustion emits toxic fumes of hydrogen chloride / phosgene.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit) Suppress (knock down) gaseous vapours/mists with a water spray jet. Collect contaminated fire extinguishing water separately This must not be discharged into drains.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation of the working area Use personal protective equipment Keep people away from and upwind of spill/leak Avoid skin and eye contact. Ventilate well, avoid breathing vapours.

6.2. Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Handle and open container with care. Wear suitable protective equipment. Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: The floor of the storage room must be impermeable to prevent the escape of liquids.
Keep container tightly closed. Store in a cool, well ventilated area. Keep away from heat, sparks and open flames

Suitable packaging: Glass. Polyethylene. Do not use metal

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

HYDROCHLORIC ACID...100%

Workplace exposure limits:

Respirable dust

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

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If exposure limit is exceeded (e.g. OEL). Combination filter: E-P2

Hand protection: Impermeable gloves. Protective gloves should be replaced at first signs of wear

Eye protection: Tightly fitting safety goggles.

Skin protection: Acid-resistant protective clothing.

Environmental: Do not flush into surface water or sanitary sewer systems Avoid subsoil penetration If the product contaminates rivers and lakes or drains inform respective authorities

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless to pale yellow

Odour: Stinging

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Miscible

Viscosity: 1.74 mPa.s (20C)

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

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Flash point°C: Not applicable. **upper:** No data available.
Autoflammability°C: No data available. **Part.coeff. n-octanol/water:** No data available.
Relative density: No data available. **Vapour pressure:** No data available.
VOC g/l: No data available. **pH:** No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No specific reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hydrogen, by reaction with metals explosive properties may develop chlorine if mixed with sodium hypochlorite or oxidizing agents (e.g. potassium permanaganate, magenium oxide and hydrogen peroxide)

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Metals. Sodium Hypochlorite Amines. Fluorine Strong oxidising agents. Chlorite Alkali metals.

10.6. Hazardous decomposition products

Haz. decomp. products: Hydrogen Chloride gas

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

HYDROCHLORIC ACID...100%

DERMAL	RBT	LD50	>5010	mg/kg
ORAL	RBT	LD50	900	mg/kg

GLYCOLLIC ACID 100%

ORAL	RAT	LD50	2040	mg/kg
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Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Corrosive effect

Eye contact: Corrosive effect Risk of serious damage to eyes

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

HYDROCHLORIC ACID...100%

ALGAE	72H ErC50	0.78	mg/l
BLUEGILL (Lepomis macrochirus)	96H LC50	24.6	mg/l
Daphnia magna	48H EC50	0.492	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.45	mg/l

GLYCOLLIC ACID 100%

Daphnia magna	48H EC50	141	mg/l
FISH (Pimephales promelas)	96H LC50	164	mg/l
GREEN ALGAE (Pseudokirchneriella subcapitata)	72H ErC50	44	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

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

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12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Neutralization is normally necessary before waste water is discharged into water treatment plants Do not allow to enter soil, waterways or waste water canal

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose of waste and residues in accordance with local authority requirements. Do not let product enter drains.

Recovery operations: Not applicable.

Disposal of packaging: Empty remaining contents Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

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

Section 14: Transport information

14.1. UN number

UN number: UN1760

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, N.O.S.
(HYDROCHLORIC ACID; GLYCOLLIC ACID)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

Section 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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Section 16: Other information

Other information

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: H314: Causes severe skin burns and eye damage.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.