

## SAFETY DATA SHEET HEAVY DUTY RESTORATION CLEANER

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Compilation date: 15/11/2013

Revision date: 07/07/2015

Revision No: 2

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

#### 1.1. Product identifier

**Product name:** HEAVY DUTY RESTORATION CLEANER

**Product code:** 4

#### 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 Carven 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](mailto: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:** Acute Tox. 1: H300+310; Acute Tox. 3: H331; Skin Corr. 1A: H314

**Most important adverse effects:** Fatal if swallowed or in contact with skin. Causes severe skin burns and eye damage.  
Toxic if inhaled.

#### 2.2. Label elements

**Label elements:**

**Hazard statements:** H300+310: Fatal if swallowed or in contact with skin.  
H314: Causes severe skin burns and eye damage.  
H331: Toxic if inhaled.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion  
GHS06: Skull and crossbones



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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.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P308: IF exposed or concerned:  
P310: Immediately call a POISON CENTER/doctor/.

**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:**

HYDROFLUORIC ACID

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-634-8	7664-39-3	-	Acute Tox. 2: H330; Acute Tox. 1: H310; Acute Tox. 2: H300; Skin Corr. 1A: H314	10-30%

ORTHOPHOSPHORIC ACID

231-633-2	7664-38-2	-	Skin Corr. 1B: H314	10-30%
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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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BETA-ALANINE, N-(2-CARBOXYETHYL)-, N-COCO ALKYL DERIVS., DISODIUM SALTS - REACH registered number (s): 01-2119976233-35-0001

290-476-8	90170-43-7	-	Eye Dam. 1: H318	1-10%
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**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Toxic in contact with skin. Causes Burns. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Apply calcium gluconate gel. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Causes burns. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 - 20 minutes while holding the eyelid(s) open. Causes severe inflammation and may damage the cornea. If contact lens is present, DO NOT delay irritation or attempt to remove the lens. Transfer to hospital for specialist examination.

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**Ingestion:** Toxic if swallowed. Ingestion causes burns to the respiratory tract. Do not induce vomiting. Drink 1 or 2 cups of water. Never give anything by mouth to an unconscious person. If swallowed seek medical attention immediately and show this container or label.

**Inhalation:** Toxic by inhalation. Inhalation is irritating to the respiratory tract and may cause damage to the central nervous system. Move the exposed person to fresh air. Transfer to hospital as soon as possible.

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

**Skin contact:** Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal. Severe burns may occur.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** Harmful if swallowed. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.

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

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

**Immediate / special treatment:** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

## Section 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:** Toxic. 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.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Evacuate personnel to a safe area. Ventilate well, avoid breathing vapours. Wear suitable protective equipment. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Prevent further spillage if safe.

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**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb into dry earth or sand. Clean spillage area thoroughly with plenty of water  
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

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

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Wear suitable protective equipment. Ensure there is exhaust ventilation of the area.

**7.2. Conditions for safe storage, including any incompatibilities**

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

**Suitable packaging:** Must only be kept in original packaging.

**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:**

**HYDROFLUORIC ACID...100%**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	-	-

**ORTHOPHOSPHORIC ACID...100%**

UK	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-	-
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**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Wash all contaminated clothing before reuse.

**Respiratory protection:** Self-contained breathing apparatus must be used in handling.

**Hand protection:** PVC gloves. Nitrile gloves. Viton gloves. Neoprene gloves.

**Eye protection:** Safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing, PVC.

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**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Colourless

**Odour:** Pungent

**Evaporation rate:** No data available.

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** No data available.

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** No data available.

**Relative density:** 1.14-1.17

**pH:** 1

**VOC g/l:** No data available.

**9.2. Other information**

**Other information:** No data available.

**Section 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:** Hazardous reactions will not occur under normal transport or storage conditions.

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

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat. Hot surfaces. Flames.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

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**Hazardous ingredients:**

**HYDROFLUORIC ACID...100%**

IPR	RAT	LDLO	25	mg/kg
SCU	FRG	LDLO	112	mg/kg

**ORTHOPHOSPHORIC ACID...100%**

ORL	RAT	LD50	1530	mg/kg
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**GLYCOLLIC ACID 100%**

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

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	INH	Hazardous: calculated
Acute toxicity (ac. tox. 2)	DRM ING	Hazardous: calculated
Acute toxicity (ac. tox. 1)	INH DRM	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal. Severe burns may occur.

**Eye contact:** There may be severe pain. The eyes may water profusely.

**Ingestion:** Harmful if swallowed. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat.

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

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**GLYCOLLIC ACID 100%**

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

**12.2. Persistence and degradability**

**Persistence and degradability:** Readily biodegradable. Greater than 60% biodegradable according to method OECD 301.

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**12.3. Bioaccumulative 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:** The product may affect the acidity (pH factor) in water with risk of harmful effects to aquatic organisms.

**Section 13: Disposal considerations**

**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.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN2922

**14.2. UN proper shipping name**

**Shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S.  
(HYDROFLUORIC ACID; GLYCOLLIC ACID; PHOSPHORIC ACID)

**14.3. Transport hazard class(es)**

**Transport class:** 8 (6.1)

**14.4. Packing group**

**Packing group:** II

**14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 2

**Section 15: Regulatory information**

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

**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.

**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:** H300: Fatal if swallowed.

H300+310: Fatal if swallowed or in contact with skin.

H310: Fatal in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H330: Fatal if inhaled.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

**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.