

## 1. Identification of the substance/mixture and of the company/undertaking

Commercial Name: **PRO CLEAN 05**

Relevant identified uses of the mixture and uses advised against:

**acidic mixture for stones treatments**

Company identification: **STONE CARE EUROPE srl** - Via L. Spallanzani, 8 - 24061 Albano Sant'Alessandro (BG) - ITALIA  
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Emergency number: **Centro Antiveleni Ospedale Niguarda Tel. 02.66.10.10.29**

## 2. Hazards Identification

2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

· **Classification system:** the product has to be labelled due to the calculation procedure of the "General Classification guideline for Substances of the EU", DIR. 67/548/EC, in the latest valid version, and of the "General Classification guideline for Preparations of the EU", DIR. 99/45/EC, in the latest valid version.

2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.



Hazard pictograms

GHS07

Signal word: Warning

Hazard-determining components of labelling: Hydrochloric acid 7%, Phosphoric acid 10%.

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor/.../if you feel unwell.

2.3 Other hazards -

Results of PBT and vPvB assessment

PBT: not applicable.

vPvB: not applicable.

## 3. Composition, Information on Ingredients

3.1 Chemical characterization: mixtures.

Description: mixture made by the following substances:

Dangerous components

Identification Number	Dangerous components	%		
EINECS: 231-595-7	Hydrochloric acid	5 % ≤ C < 10 %	Xi R36/37/38	Skin Irrit. 2; H315; Eye Irrit. 2; H319; STOT SE 3, H335 Nr CAS 7647-01-0

Reg.nr.: 01-2119484862-xx

EINECS: 231-633-2	Phosphoric acid	8 % ≤ C < 12 %	Xi R36/38	Skin Irrit. 2; H315; Eye Irrit. 2; H319
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Nr CAS: 7664-38-2

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## 4. First Aid Measures

4.1 Description of first aid measures

General information: remove immediately any clothing soiled by the product and wash with plenty of water. The rescuer has to be equipped with individual protection.

After inhalation: in case of unconsciousness place patient stably in side position for transportation.

After skin contact: immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse.

After eye contact: rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: do not induce vomiting; call for medical help immediately. Drink plenty of water and provide fresh air.

4.2 Most important symptoms and effects, both acute and delayed: no further relevant information available.

Information for doctor: show the doctor this Material Safety Data Sheet.

4.3 Indication of any immediate medical attention and special treatment needed: no further relevant information available.

## 5. Fire-Fighting Measures

General Information: as in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

5.1 Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: no further relevant information available.

**5.3 Advice for firefighters**

**Protective equipment:** do not inhale gases in case of fire or combustion.

**Additional information:** keep receptacles cool with water spray.

**6. Accidental Release Measures**

**General Information:** use proper personal protective equipment as indicated in Section 8.

**6.1 Personal precautions, protective equipment and emergency procedures:** wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes.

**6.2 Environmental precautions:** dilute with plenty of water after collecting the liquid. Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:** collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc). Ensure adequate ventilation. Use neutralizing agent. Dispose contaminated material as waste according to item 13.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. Handling and Storage**

**7.1 Precautions for safe handling:** ensure good ventilation/exhaustion at the workplace.

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

**Storage -**

**Requirements to be met by storerooms and receptacles:** store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Provide acid-resistant floor. Provide floor trough without outlet.

**Information about storage in one common storage facility:** do not store together with alkalis (caustic solutions).

**Further information about storage conditions:** keep receptacle tightly sealed.

**7.3 Specific end use(s):** no further relevant information available.

**8. Exposure Controls, Personal Protection**

**Additional information about design of technical facilities:** no further data; see item 7.

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**Hydrogen chloride** IOELV (European Union) Short-term value: 15 mg/m<sup>3</sup>, 10 ppm - Long-term value: 8 mg/m<sup>3</sup>, 5 ppm

**Phosphoric acid** IOELV (European Union) Short-term value: 2 mg/m<sup>3</sup> - Long-term value: 1 mg/m<sup>3</sup>

**Additional information:** the lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment -**

**General protective and hygienic measures:** keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

**Respiratory protection:** in case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended in case of leakages or handling in open devices.

**Protection of hands:** the selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Protective gloves: Rubber gloves

**Material of gloves:** the glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:** the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** tightly sealed goggles.

**Body protection:** choose body protection according to the amount and concentration of the dangerous substance at the work place.

**9. Physical and Chemical Properties**

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

**Molecular weight**

**Appearance:**

**Form:** fluid

**Color:** colorless

**Odor:** pungent.

**Odor threshold:** not determined.

**pH-value at 20 °C:** 4,5+/- 0,5

**Change in condition**

**Melting point/Melting range:** not determined.

**Boiling point/Boiling range:** >100°C

**Flash point:** not applicable.

**Flammability (solid, gaseous):** not applicable.

**Ignition temperature:** not applicable.

**Decomposition temperature:** not determined.

**Self-igniting:** product is not self-igniting.

**Danger of explosion:** product does not present an explosion hazard.

**Explosion limits:**

**Lower:** not determined.

**Upper:** not determined.

**Vapour pressure at 20 °C:** not determined.

**Density at 20 °C:** 1,125 g/cm<sup>3</sup>

**Relative density:** not determined.

**Vapour density at 20 °C:** not determined.

**Evaporation rate:** not determined.

**Solubility in / Miscibility with water at 20 °C:** totally.

**Organic solvents:** soluble in alcohols.

**Partition coefficient (n-octanol/water):** not determined.

Viscosity at 15 °C: not determined.  
 Dynamic at 20 °C: not determined.  
 Kinematic: not determined.  
 Organic solvents: 0.0 %  
 9.2 Other information: no further relevant information available.

## 10. Stability and Reactivity

10.1 Reactivity: see 10.3.  
 10.2 Chemical stability  
 Thermal decomposition / conditions to be avoided: no decomposition if used according to specifications.  
 10.3 Possibility of hazardous reactions: reacts with various metals. Reacts dangerously with alkali (lyes) or amines in bulk.  
 10.4 Conditions to avoid: no further relevant information available.  
 10.5 Incompatible materials: metals.  
 10.6 Hazardous decomposition products: hydrogen chloride (HCl).

## 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity: -  
 Primary irritant effect -  
 - on the skin: irritant to skin and mucous membranes.  
 - on the eye: classified as having irritating properties.  
 - ingestion: it can be harmful if swallowed.  
 - inhalation: may cause respiratory tract irritation.  
 - sensitization: no sensitizing effects known.

Other information (about experimental toxicology): no more relevant data available.

Additional toxicological information: the product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

## 12. Ecological Information

- 12.1 Toxicity
- Aquatic toxicity: no further relevant information available.
- 12.2 Persistence and degradability: no further relevant information available.
- Method
- Ecological information: not available.
- 12.3 Bioaccumulative potential: no further relevant information available.
- 12.4 Mobility in soil: no further relevant information available.
- Ecotoxicological effects:
- Remark: Local effects: may change the environmental pH endangering the aquatic life.
- Additional ecological information
- General notes: water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
- PBT: not applicable.
- vPvB: not applicable.
- 12.6 Other adverse effects: no further relevant information available.

## 13. Disposal Considerations

- 13.1 Waste treatment methods
- Recommendation: must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.
- Waste disposal key: the European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending the list of wastes contained in Decision 2000/532/ EC.  
 Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

- Uncleaned packaging: the containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.

Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and packaging waste.

- Recommendation: disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: water, if necessary together with cleansing agents.

## 14. Transport Information

Land transport (ADR/RID/GGVSE): - Not regulated  
 Inland water ways transport (ADNR/ADN): - Not regulated  
 Sea transport (IMDG-Code/GGVSee): - Not regulated  
 Air transport (ICAO-IATA/DGR): - Not regulated

## 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
 the product is classified and labelled according to the CLP regulation.



Hazard pictograms

GHS07

Signal word: Warning

Hazard-determining components of labelling: Hydrochloric acid 7%, Phosphoric acid 10%.

Hazard statements

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Precautionary statements

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P312 Call a POISON CENTER/doctor/.../if you feel unwell.

#### 15.2 Other hazards -

Results of PBT and vPvB assessment

**PBT:** not applicable.

**vPvB:** not applicable.

#### Information about limitation of use -

**Waterhazard class** - Water hazard class 1 (Self-assessment): slightly hazardous for water.

**15.3 Chemical safety assessment:** a Chemical Safety Assessment has been carried out.

## 16. Additional Information

#### · Relevant phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R36/37/38: Irritating to eyes, respiratory system and skin.

#### References

ECDIN (Environmental Chem. Data and Information Network)

IUCLID (International Uniform Chemical Information Database)

NIOSH - Registry of Toxic Effects of Chemical Substances

Roth - Wassergefährdende Stoffe

Verschuieren - Handbook of Environmental Data on Organic Chemicals

ChemDAT - Safety Data Sheets from E.Merck on CD-ROM

Merian - Metals and their compounds in the environment

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

#### Sources

DIR. 67/548/EC, in the latest valid version.

DIR. 1999/45/EC, in the latest valid version.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, REACH.

Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP, in the latest valid version.

Globally Harmonized System, GHS

ADR 2011

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