 <b>PROTELIM</b>		Safety Data Sheet - SDS (Conf. ABNT NBR 14725) <b><u>DEEP CLEAN</u></b>	
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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** DEEP CLEAN

**Application:** Acid Scaling Detergent.

**Company:** Protelim Indústria Química de Produtos de Higiene e Limpeza Ltda - ME  
Avenida Henry Ford, nº 962, Mooca, São Paulo – SP. ZIP CODE: 03109-000  
Phone/ Fax +55 (11) 2914-4464  
E-mail: laboratorio@protelim.com.br

**Emergency telephone number:** 0800-771-3733 or the nearest Health Service.

## 2. HAZARDS IDENTIFICATION

**Product hazard classification:**

- Corrosive to metals - Category 1
- Acute toxicity - dermal - Category 3
- Acute toxicity - oral - Category 4
- Skin corrosion and irritation - Category 1B
- Serious eye damage/eye irritation - Category 1
- Respiratory sensitization - Category 1
- Skin sensitization - Category 1
- Mutagenicity in germ cells - Category 2
- Toxicity to specific organs - single exposure - Category 1
- Toxicity to specific organs - repeated exposure - Category 1

**Other hazards not resulting in classification:** The product poses no other hazards.

**Classification system used:** ABNT-NBR 14725: 2023 Standard  
Globally Harmonized System for the Classification and Labelling of Chemicals, UN.


**Hazard Pictograms:**



**Signal word:** Warning.

**Hazard statements:**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H370 Causes damage to organs (respiratory system and pancreas) through single exposure.
- H372 Causes damage to organs (central nervous system, bones, teeth, thyroid, kidneys, liver, testicles, bronchi, and pituitary) through repeated exposure.

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### **Precautionary statements:**

#### **General:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

#### **Prevention:**

P202 Do not handle the product until you have read and understood all safety precautions.  
P260 Do not breathe dusts/fumes/gases/mist/vapours/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink, or smoke while using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

#### **Emergency Response:**

P301+P312 IN CASE OF INGESTION: If you feel unwell, contact a POISON CENTER or a doctor.  
P301+P330+P331 IN CASE OF INGESTION: Rinse mouth. DO NOT induce vomiting.  
P303+P361+P353 IN CASE OF CONTACT WITH SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IN CASE OF INHALATION: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IN CASE OF CONTACT WITH EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IN CASE OF CONTACT WITH SKIN: Wash with plenty of soap and water.  
P314 If you feel unwell, seek medical advice.  
P308 + P313 IN CASE OF exposure or suspected exposure: Get medical advice.  
P333+P313 In case of skin irritation: Get medical advice.  
P363 Wash contaminated clothing before reuse.

#### **Storage:**

P402 Store in a dry place.

#### **Disposal:**

P501 Dispose of contents/container in accordance with local regulations.


### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

#### **Chemical nature:**

Chemical product prepared based on Sodium Dodecylbenzene Sulfonate, Hydrofluoric Acid, Hydrochloric Acid, dye, and carrier.

#### **Substances contributing to the hazard:**

Chemical name	Nº CAS	Conc.% (weight)	Note
Sodium dodecylbenzene sulfonate	85536-14-7	< 10,0%	
Hydrochloric acid	7647-01-10	< 10,0%	

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Other ingredients in this mixture, at the concentration used, do not contribute to the hazard. It does not contain impurities with significant toxicity.

#### 4. FIRST AID MEASURES


<b><i>If inhaled:</i></b>	Remove the victim to a ventilated area and keep them at rest in a position that does not hinder breathing. If feeling unwell, contact a POISON CENTER or a doctor. Take this SDS.
<b><i>If case of skin contact:</i></b>	Wash exposed skin with plenty of water to remove the material. In case of skin irritation: Consult a doctor. Take this SDS.
<b><i>If case eye contact:</i></b>	Flush affected eyes thoroughly with water for at least 15 minutes. If wearing contact lenses, remove them if easy to do. Consult a doctor. Take this SDS.
<b><i>If swallowed:</i></b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. If feeling unwell, contact a Poison Centre or a doctor. Take this SDS.
<b><i>Most important symptoms and effects, both acute and delayed:</i></b>	Can be fatal if ingested. Causes serious eye damage. Ingestion may cause stomach ulceration or bleeding, nausea, and diarrhea.
<b><i>Notes to physician:</i></b>	Provide symptomatic treatment.

#### 5. FIREFIGHTING MEASURES

<b><i>Suitable extinguishing media:</i></b>	Compatible with any fire extinguishing medium.
<b><i>Specific hazardous during firefighting:</i></b>	None.
<b><i>Specific extinguishing methods:</i></b>	Contact or mixing with strong oxidizing and alkaline materials. Produces toxic and irritating vapors when heated.
<b><i>Special protective equipment for firefighters:</i></b>	In large fires, use self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

<b><i>Personal precautions, protective equipment and emergency procedures:</i></b>	Use acid vapor mask, impermeable boots, gloves, and safety goggles.
<b><i>Environmental precautions:</i></b>	Rinse the area with plenty of water.
<b><i>Methods and materials for containment and cleaning up:</i></b>	Contain the leak, collect as much as possible, and rinse the area with plenty of water.

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**Recovery:**

The spilled product should not be used anymore. For disposal, check federal, state, and local regulations and restrictions.

## 7. HANDLING AND STORAGE

### *Appropriate technical measures for safe handling*

**Precautions for safe handling:**

Handle in a ventilated area using the PPE described in section 8.

**Hygiene measures:**

Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering food areas.

### *Safe storage conditions, including any incompatibilities*

**Fire and explosion prevention:**

The product is not flammable. It is not expected to present a fire or explosion hazard. In case of fire nearby, cool exposed containers with a jet or fine water mist or remove them to a safe area. Maintain cooling even after the fire is extinguished

**Storage:**

Keep containers tightly closed in a cool place, avoid excessive stacking.

**Proper storage conditions:**

Store in original, tightly closed containers in ventilated areas. Handle with original packaging and keep protected from the weather on pallets.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control parameters:**

Not established for the mixture.

Occupational exposure limits:

Hydrochloric Acid: TLV (Threshold Limit Value): Brazil - Average Value 48h 4 ppm / Ceiling Value: See note.

Hydrofluoric Acid: TLV: Brazil - Average Value 48h 2.5 ppm / Ceiling Value: 5 ppm

Note: The tolerance limit must not be exceeded at any time during the work shift, as per Annex 11 of NR 15.

**Engineering control measures:**

Keep the workplace ventilated. If necessary, use local exhaust ventilation or general dilution ventilation (with air renewal).

**Eye/face protection:**

Wide vision chemical goggles.

**Skin protection:**

Impermeable gloves, safety footwear, and normal work clothes.

**Respiratory protection:**

In environments with low ventilation, use a mask for acid vapors.

**Thermal hazards:**

Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**pH:** 1.0 – 3.0

**Distillation range:** no data available.

**Physical state:** translucent liquid.

**Flash point:** no data available.



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**Odour:** acid to characteristic.

**Colour:** green.

**Density:** 1.03 +/- 0.01 g/cm<sup>3</sup>

**Solubility:** Total in water.

**Viscosity:** no data available.

**Melting point:** no data available.

**Boiling point:** no data available.

**Vapor pressure:** no data available.

**Evaporation rate:** no data available.

**Vapor density:** no data available.

**Decomposition temperature:** no data available.

**Explosivity limits:**

**LEL (lower explosive limit):** no data available.

**UEL (Upper explosive limit):** no data available.

## 10. STABILITY AND REACTIVITY

**Stability and reactivity:** Stable product under normal handling and storage conditions.

**Hazardous reactions:** None, except when mixed with incompatible materials.

**Conditions to avoid:** Locations with high temperatures.

**Incompatible materials:** Strong oxidizing and alkaline products.

**Hazardous decomposition products:** None. Produces toxic and irritating vapours when heated.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Acute Toxicity Estimate (ATE):

ATE (oral): 407 mg/kg

ATE (dermal): 419 mg/kg.

**Skin Corrosion/Irritation:** May cause severe burns to the skin.

**Serious Eye Damage/Eye Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** May cause allergic reactions in the skin and respiratory system.

**Mutagenicity in Germ Cells:** Suspected of causing genetic defects.

**Carcinogenicity:** The product is not expected to exhibit carcinogenicity.

**Reproductive Toxicity:** The product is not expected to exhibit reproductive toxicity.


**Specific Target Organ Toxicity – Single Exposure:** Causes damage to organs (respiratory system and pancreas) upon single exposure.

**Specific Target Organ Toxicity – Repeated Exposure:** Causes damage to organs (central nervous system, bones, teeth, thyroid, kidneys, liver, testicles, bronchi, and pituitary gland) upon repeated exposure.

**Aspiration Hazard:** The product is not expected to present a danger through aspiration.

**Ingestion:** Never induce vomiting. Depending on the quantity, it can cause severe irritation, abdominal cramps, and diarrhea.

**Local Effects:** None notable.

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## 12. ECOLOGICAL INFORMATION


<b>Ecotoxicity:</b>	There are no available data on toxicity to aquatic organisms. The product is expected to degrade rapidly in water; however, its presence in large concentrations may cause toxic effects on aquatic life.
<b>Persistence/ Degradability:</b>	In effluents, the product dissolves rapidly.
<b>Bioaccumulative Potential:</b>	No bioaccumulative potential is expected in aquatic environments.
<b>Soil Mobility:</b>	Not determined.
<b>Other Adverse Effects:</b>	The surfactants and adjuvants present in the formula are biodegradable and have no recalcitrant effect. When used correctly, with ample rinsing and neutralization treatment, the product does not contaminate effluents.

## 13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Avoid occupational exposure or environmental contamination. The product should be disposed of as waste in accordance with local, state, and federal regulations. Appropriate companies should be contacted prior to disposal.
<b>Waste for residues:</b>	Keep product residues in their original and properly closed containers. Dispose of by burning in an appropriate incinerator. Any disposal method must comply with local legislation and regulations. Do not pour into sewers, onto land, or into any body or source of water.
<b>Contaminated packaging:</b>	Empty containers may contain residues of the product, which should be taken into account before disposal. Keep containers with product/residue in a suitable place and properly labelled. Empty containers may be sent to specialized recyclers after neutralization.

## 14. TRANSPORT INFORMATION

<b>Terrestrial (railways, highways):</b>	Resolution No. 5232/2016 of the National Land Transportation Agency (ANTT).
<b>Ship (sea, rivers, lakes):</b>	International Maritime Dangerous Goods Code (IMDG Code). Norm 5 of the Directorate of Ports and Coasts of the Ministry of the Navy (DPC). National Waterway Transportation Agency (ANTAQ).
<b>Air:</b>	International Civil Aviation Organization - Technical Instructions (ICAO-TI). International Air Transport Association - Dangerous Goods Regulations (IATA-DGR). National Civil Aviation Agency (ANAC).
<b>Classification:</b>	UN number: 1760 Proper shipping name: CORROSIVE LIQUID, N.O.S. (Not Otherwise Specified) Primary risk class: 8 Subsidiary risk class: NA Risk number: 80 Packaging group: II
<b>Hazardous Components:</b>	Hydrofluoric Acid, Hydrochloric Acid, Sulphonic Acid.

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## 15. REGULATORY INFORMATIONS

### *Specific Regulations for the chemical product:*

Federal Decree No. 2,657, dated July 3, 1998.

ABNT-NBR Standard 14725: 2023.

SANITIZER PRODUCT NOTIFIED TO ANVISA/MS: 25351.460851/2019-77

## 16. OTHER INFORMATION

This SDS was prepared based on current knowledge about the appropriate handling of the product and under normal conditions of use, according to the specified application on the packaging. Any other use of the product that involves its combination with other materials, different from the indicated forms of use, is the responsibility of the user. It is advised that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace, it is the responsibility of the user company to provide training to its employees and contractors regarding the potential risks associated with exposure to the chemical product.

Sanitizing product notified to ANVISA

Operating Authorization MS No. 3.04001-4

Technical Responsible: Chemist Alexandre A. Canfora

CRQ 04.438.605 – IV Region