

 <b>PROTELIM</b>	Safety Data Sheet – SDS (Conf. ABNT NBR 14725) <b><u>IRON OUT</u></b>		
Version: <b>03</b>	Revision Date: <b>06/02/2024</b>	Developed on: <b>04/05/2021</b>	<b>Page 1 of 7</b>

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b>	IRON OUT
<b>Application:</b>	Iron Decontaminator
<b>Company:</b>	<b>Protelim Indústria Química de Produtos de Higiene e Limpeza Ltda - ME</b> 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
<b>Emergency telephone number:</b>	0800-771-3733 or the nearest Health Service.

## 2. HAZARDS IDENTIFICATION

<b>Product hazard classification:</b>	Acute toxicity classification, Category 5
<b>Other hazards not resulting in classification:</b>	<b>ABNT-NBR 14725: 2023 Standard.</b> <b>Globally Harmonized System for the Classification and Labelling of Chemicals, UN.</b>
<b>Classification system used:</b>	
<b>Hazard Pictograms:</b>	WARNING H304 May be fatal if swallowed and enters airways. H320 Causes eye irritation. H413 May cause long-lasting harmful effects to aquatic
<b>Signal word:</b>	
<b>Hazard statements:</b>	<b>General:</b> P102 Keep out of reach of children. <b>Prevention:</b> P273 Avoid release to the environment. <b>Emergency Response:</b> P312 If you feel unwell, contact a POISON CENTER or doctor. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Toxic if inhaled. <b>Storage:</b> P405 Store locked up. <b>Disposal:</b> P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Other hazards not resulting in classification:</b>	The product has no other hazards.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Chemical nature:**

Anionic Surfactant, Acidulant, Neutralizer, Preservative, and Vehicle

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

Chemical name	CAS	Concentration (%)
Sodium hydroxide	1310-73-2	< 10
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

**If inhaled:** 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 CONTROL CENTER or a doctor. Take this SDS with you.

**If case of skin contact:** Wash the exposed skin with a sufficient amount of water to remove the material. In case of skin irritation: Consult a doctor. Take this SDS with you.

**If case eye contact:** Flush eyes thoroughly with water for at least 15 minutes. If wearing contact lenses, remove them if easy. Consult a doctor. Take this SDS with you.

**If swallowed:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water thoroughly. If feeling unwell, contact a POISON CONTROL CENTER or a doctor. Take this SDS with you.

**Most important symptoms and effects, both acute and delayed:** Harmful if inhaled. Causes skin irritation with redness, pain, and dryness. Can be fatal if swallowed and enters the respiratory tract.


**Notes to physician:** Avoid contact with the product when assisting the victim. If necessary, symptomatic treatment should include primarily supportive measures such as correction of electrolyte and metabolic disturbances, as well as respiratory assistance. In case of skin contact, do not rub the affected area.

### 5. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Compatible with alcohol-resistant foam, water mist, chemical powder, and carbon dioxide (CO<sub>2</sub>).

**Environmental precautions:** Water directly onto liquid flames.

**Methods and materials for containment and** The product is non-flammable. Its combustion or that of its packaging can form irritating and toxic gases such as carbon monoxide and dioxide, silicon oxides,

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**cleaning up:** and silica. Incomplete combustion may produce carbon monoxide and light hydrocarbon vapours.

**Recovery:** Respiratory protective equipment of the self-contained breathing apparatus (SCBA) type with positive pressure and full protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** Isolate the leak from ignition sources. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without proper protective clothing. Avoid inhalation, eye, and skin contact. Use personal protective equipment as described in Section 8.

**For emergency responders:** Use full personal protective equipment with side shield goggles, PVC gloves, safety footwear, and impermeable clothing. In case of large leaks where exposure is significant, use a protective mask with vapour or mist filter.

### **Environmental precautions:**

Prevent the product from reaching water bodies and sewage systems.

### **Methods and materials for containment and cleaning up:**

Use water mist or vapor-suppressing foam to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place it in proper containers. Adsorb remaining product with dry sand, soil, vermiculite, or any other inert material. Place the adsorbed material in appropriate containers and remove them to a safe location. For final disposal, proceed according to Section 13 of this SDS.

### **Recovery:**

The spilled product should no longer be used. For disposal, check federal, state, and municipal 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. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the restroom.

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

### **Fire and explosion prevention:**

The product is not expected to present a fire or explosion hazard.

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

**Proper storage conditions:** Keep the product in a cool, dry, and well-ventilated area, away from heat and ignition sources. Keep containers tightly closed and properly labeled. The storage area should have an impermeable floor, free of combustible materials, and equipped with a containment dike to retain leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Control parameters:** Not established for the mixture.

**Engineering control measures:** Medium Petroleum Distillates: USA/ACGIH - TLV/TWA: 184ppm

**Eye/face protection:** Provide mechanical ventilation and direct exhaust system to the outside environment. These measures help reduce exposure to the product. Keep atmospheric concentrations of product constituents below indicated occupational exposure limits.

**Skin protection:** Tightly sealed protective goggles.

**Respiratory protection:** Waterproof gloves, safety footwear, and regular work clothes.

**Thermal hazards:** Protective mask with filters against vapors and mists. In high concentrations, use self-contained breathing apparatus or supplied-air respirator.

**Control parameters:** No thermal hazards.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Low viscosity liquid.

**Odour:** Characteristic.

**pH:** 6.5 – 7.5

**Melting Point / Freezing Point:** no data available.

**Boiling Point:** no data available.

**Initial Boiling Point:** no data available.

**Distillation Range:** no data available.

**Flash Point:** no data available.

**Evaporation Rate:** no data available.

**Flammability (solid; gas):** no data available.

**Explosivity limits:** no data available.

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


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

**Vapor Pressure:** no data available.

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**Vapor Density:** no data available.**Relative Density:** 1.09 +/- 0.02 g/cm<sup>3</sup>**Solubility:** Soluble in water.**Partition Coefficient - n-octanol/water:** no data available.**Autoignition Temperature:** no data available.**Decomposition Temperature:** no data available.**Viscosity:** 40 cSt**10. STABILITY AND REACTIVITY****Stability and reactivity:** Product is stable under normal handling and storage conditions.**Hazardous reactions:** Reacts exothermically upon contact with strong oxidizing agents.**Conditions to avoid:** Avoid high temperatures, ignition sources, and contact with incompatible materials.**Incompatible materials:** Strong oxidizing agents.**Hazardous decomposition products:** No hazardous decomposition products are known.**11. TOXICOLOGICAL INFORMATION****Acute Toxicity:** Not classified as acutely toxic by dermal and oral routes.  
Acute toxicity estimate (ETA):  
LD50 (dermal, rabbits): > 5000 mg/kg  
LD50 (oral, rats): > 5000 mg/kg**Skin Corrosion/Irritation:** No corrosion/irritation to the skin is expected.**Serious Eye Damage/Eye Irritation:** No eye irritation is expected.**Respiratory or Skin Sensitization:** May cause dermatitis with dryness upon repeated or prolonged exposure. Respiratory sensitization is not expected.**Mutagenicity in Germ Cells:** No mutagenicity in germ cells is expected.**Carcinogenicity:** No carcinogenicity is expected.**Reproductive Toxicity:** No reproductive toxicity is expected.**Specific Target Organ Toxicity – Single** May cause respiratory irritation and narcotic effects with shortness of breath, coughing, dizziness, drowsiness, weakness, loss of consciousness, and headache.

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**Exposure:** May cause damage to the central nervous system with loss of consciousness and convulsion.

**Specific Target Organ Toxicity – Repeated Exposure:** May cause damage to the central and peripheral nervous system upon repeated or prolonged exposure.

**Aspiration Hazard:** Aspiration of the product may cause pulmonary edema, chemical pneumonitis.

**Ingestion:** Nausea and vomiting may occur if ingested.

**Local Effects:** No notable effects noted.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Based on the tests conducted on the raw materials composing the product, it is expected to exhibit ecotoxicity.

**Persistence/ Degradability:** The product shows persistence and is not considered readily degradable.

**Bioaccumulative Potential:** Data not available.

**Soil Mobility:** Data not available.


**Other Adverse Effects:** The release of large quantities of the product can cause undesirable environmental effects, such as reduced oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating, and consequent suffocation of animals.

## 13. DISPOSAL CONSIDERATIONS

**Product** Avoid occupational exposure or environmental contamination. Dispose of the product as waste in accordance with local, state, and federal regulations. Contact appropriate companies before disposal.

**Waste for residues:** Keep the remaining product in its original and properly closed containers. Incinerate in an appropriate incinerator. Any disposal method must comply with local legislation and regulations. Do not dispose of in sewage, soil, or any body of water.

**Contaminated packaging:** Empty containers may contain residues of the product, which should be considered before disposal. Keep the container with product/residues in a suitable location and properly identified. Do not reuse containers.

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#### 14. TRANSPORT INFORMATION

**Terrestrial (railways, highways):** Resolution No. 5232/2016 of the National Land Transportation Agency (ANTT).

**Ship (sea, rivers, lakes):** 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).

**Air:** International Civil Aviation Organization Technical Instructions (ICAO-TI).  
International Air Transport Association Dangerous Goods Regulations (IATA-DGR).  
National Civil Aviation Agency (ANAC).

**Classification:** Product not classified as dangerous for transportation according to the above regulations.

#### 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: 25351.322516/2021-96

#### 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