

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

Product Name:	REVITAX
Application:	Plastic revitalizer and protector.
Company:	Protelim Indústria Química de Produtos de Higiene e Limpeza Ltda - ME Avenida Henry Ford, n° 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. HAZARD IDENTIFICATION

Product hazard classification:	Severe eye damage/eye irritation - Category 2A Toxicity to specific organs - repeated exposure - Category 2 Hazardous to aspiration - Category 1 Acute aquatic toxicity - Category 2
Other hazards not resulting in classification:	The product has 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:	H319 Causes serious eye irritation. H371 May cause damage to the central nervous system. H335 May cause respiratory irritation. H373 May cause damage to the central nervous system and peripheral nervous system through repeated or prolonged exposure. H304 May be fatal if swallowed and enters airways. H401 Toxic to aquatic life.
Precautionary statements:	General: P102 Keep out of reach of children. Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P233 Keep container tightly closed. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

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P273 Avoid release to the environment.

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

Emergency Response:

P312 If you feel unwell, contact a POISON CENTER or doctor.

P314 If you feel unwell, seek medical advice.

P331 Do not induce vomiting.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P308 + P313 IF exposed or concerned: Get medical advice.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P332 + P313 If skin irritation occurs: Get medical advice.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature: Chemical product prepared based on mineral oil, Polymethylsiloxane, Isoparaffinic Hydrocarbon, Dye, and Fragrance.

Substances contributing to the hazard:

Chemical name	CAS	Conc.% (weight)	Note
Isoparaffinic Hydrocarbon	64742-47-8	< 35%	
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 TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this SDS.

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

If case eye contact: Flush eyes thoroughly with water for at least 15 minutes. In case of contact lens use, remove them if easy. Consult a doctor. Take this SDS.

If swallowed: Do not induce vomiting. Never give anything orally to an unconscious person. Rinse mouth thoroughly with water. If feeling unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this SDS.

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Most important symptoms and effects, both acute and delayed:

Causes skin irritation with dryness and redness, and eye irritation with tearing, pain, and redness. It can cause irritation to the respiratory tract and narcotic effects with shortness of breath, cough, dizziness, drowsiness, weakness, loss of consciousness, and headache. It can cause damage to the cardiovascular system with tachycardia and ventricular arrhythmia. It can cause damage to the central nervous system with loss of consciousness and convulsion. It can cause nausea and vomiting if ingested. It can cause damage to the central nervous system and peripheral nervous system through repeated or prolonged exposure. Aspiration of the product can cause pulmonary edema and chemical pneumonitis.

Notes to physician:

Avoid contact with the product when assisting the victim. If necessary, symptomatic treatment should mainly include support 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. FIREFIGHTING MEASURES

Suitable extinguishing media:

Compatible with alcohol-resistant foam, water mist, chemical powder, and carbon dioxide (CO₂).

Specific hazardous during firefighting:

Water directly on liquid flames.

Specific extinguishing methods:

The combustion of the chemical product or its packaging can generate irritating and toxic gases such as carbon monoxide and carbon dioxide. Very dangerous when exposed to excessive heat or other sources of ignition. It can accumulate static charge by flow or agitation. Vapors from the heated liquid can ignite by static discharge. The vapors are denser than air and tend to accumulate in low confined areas, such as sewers, basements, etc. They can travel long distances causing flame flashback or new fire focuses in both open and confined environments. Packaging can explode if heated.

Special protective equipment for firefighters:

Self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing is required. 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 appropriate clothing. Avoid inhalation, eye contact, and skin contact. Use personal protective equipment as described in section 8.

For emergency service personnel: Use full PPE with side protection goggles, PVC gloves, safety footwear, and waterproof clothing. In case of major leaks, where exposure is high, the use of a protective mask with vapor or mist filter is recommended.

Environmental

Prevent the product from reaching watercourses and sewage systems.

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precautions:

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 the spilled product and place it in appropriate containers. Adsorb the remaining product with dry sand, soil, vermiculite, or any other inert material. Place the adsorbed material in suitable containers and remove them to a safe location. For final disposal, proceed as described in 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 equipment before entering food areas. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the bathroom.

Safe storage conditions, including any incompatibilities

Fire and explosion prevention:

Keep away from heat, sparks, open flames, and hot surfaces. Do not smoke. Keep the container tightly closed. Use only non-sparking tools. Avoid the accumulation of static charges. Use explosion-proof electrical, ventilation, and lighting equipment.

Storage:

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

Proper storage conditions:

Store the product in a cool, dry, 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 from combustible materials, and with containment dikes to retain in case of leaks.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Not established for the mixture.

Engineering control measures:

Provide mechanical ventilation and direct exhaust system to the outside environment. These measures assist in reducing exposure to the product. Maintain atmospheric concentrations of the product constituents below the indicated occupational exposure limits.

Eye/face protection:

Wide vision chemical goggles.

Skin protection:


Impermeable gloves, safety footwear, and normal work clothing.

Respiratory protection:

None in well-ventilated areas.

Thermal hazards:

No thermal hazards.

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9. PHYSICAL AND CHEMICAL PROPERTIES


pH: no data available.	Distillation range: no data available.
Physical state: low viscosity liquid.	Flash point: 72°C.
Odour: Characteristic.	Vapor pressure: no data available.
Colour: red.	Evaporation rate: no data available.
Density: 0.85 +/- 0.01 g/cm ³	Vapor density: no data available.
Solubility: Soluble in alcohol and chloroform.	Decomposition temperature: no data available.
Viscosity: no data available.	Explosivity limits:
Melting point: no data available.	LEL (lower explosive limit): no data available.
Boiling point: 195 to 280°C.	UEL (Upper explosive limit): no data available.

10. STABILITY AND REACTIVITY

Stability and reactivity:	Product is stable under normal handling and storage conditions.
Hazardous reactions:	No known hazardous reactions.
Conditions to avoid:	Areas with high temperatures.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	None. If exposed to fire, after water runoff, it may produce normal combustion gases from organic products.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified as acutely toxic via dermal and oral routes. LD50 (dermal, rabbits): > 5000 mg/kg LD50 (oral, rats): > 000 mg/kg
Skin Corrosion/Irritation:	Causes skin irritation with dryness and redness.
Serious Eye Damage/Eye Irritation:	It is not expected to cause eye irritation.
Respiratory or Skin Sensitization:	May cause dermatitis with dryness upon repeated or prolonged exposure. Respiratory sensitization is not expected.
Mutagenicity in Germ Cells:	Not classified as mutagenic in germ cells. According to IPIECA, the results of IP 346 testing and modified Ames testing have a strong correlation with the results of epidermal carcinogenicity bioassays. Petroleum products that result in IP 346 > 3% (w/w) and mutagenicity index > 1.0 are considered potentially mutagenic and carcinogenic to the skin. Mutagenicity index – Ames Test: < 1.0.
Carcinogenicity:	Not classified as carcinogenic to humans. According to IPIECA, the results of IP 346 testing and modified Ames testing have a strong correlation with the results of epidermal carcinogenicity bioassays. Petroleum products that result in IP 346 > 3% (w/w) and mutagenicity index > 1.0 are considered potentially mutagenic and carcinogenic to the skin. Polycyclic aromatic hydrocarbon content – IP-346: < 3.0%.
Reproductive Toxicity:	The product is not expected to exhibit reproductive toxicity.

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**Specific Target Organ
Toxicity – Single
Exposure:**

May cause irritation of the respiratory tract and narcotic effects with shortness of breath, cough, dizziness, drowsiness, weakness, loss of consciousness, and headache. May cause damage to the central nervous system with loss of consciousness and convulsions

**Specific Target Organ
Toxicity – Repeated
Exposure:**

May cause damage to the central nervous system and peripheral nervous system upon repeated or prolonged exposure.

Aspiration Hazard:

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

Ingestion:

May cause nausea and vomiting if ingested.

Local Effects:

None notable.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Due to the nature of the product, ecotoxicity is expected.
EC50 (Daphnia magna, 48h): > 1000 mg/L

**Persistence/
Degradability:**

The product exhibits persistence and is not considered readily biodegradable.

**Bioaccumulative
Potential:**

It presents low potential for bioaccumulation in aquatic organisms.
Log Kow: 3.9 - 6.0 (estimated value)
BCF: 132 (estimated value)

Soil Mobility:

Not determined.

Other Adverse Effects:

The release of large quantities of the product can cause undesirable environmental effects, such as decreased oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating, and subsequent 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. Appropriate companies should be contacted before disposal.

Waste for residues:

Keep the remnants of the product in their original containers and properly sealed. Dispose of them in an appropriate incinerator. Any disposal method must comply with local legislation and regulations. Do not dispose of it in sewers, soil, or any body of water.

**Contaminated
packaging:**

Empty containers may contain residues of the product, which should be taken into account before disposal. Keep the container with the product/remnants in a suitable and properly identified place. Do not reuse the containers; instead, send them for recycling after washing.


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).

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Air:	National Waterway Transportation Agency (ANTAQ). 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.
Hazardous Components:	None.

15. REGULATORY INFORMATION

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: 25351.643221/2022-31

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