

Product: **PROSEC CS**

CMSDS No.: 034

Date of last review: 05/16/2016

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: *Prosec CS*
Internal identification code: *05000787*
Company Name: *Proquitech Indústria de Produtos Químicos e Repres. Coml. S.A.*
Address: *Rua Ifema, 291 - Vargem Grande Paulista - SP*
Emergency Phone No.: *(11) 4158 8400*
Fax: *(11) 4158 3184*
Homepage: <http://www.proquitech.com.br>

2. HAZARDS IDENTIFICATION

Most important hazards: *May cause allergic reactions on skin. Causes serious eye damage. May cause respiratory irritation.*

Product effects:

Adverse effects to human health: *Irritant when swallowed, inhaled or in contact with skin.*

Main symptoms: *Respiratory tract irritation; Gastrointestinal apparatus irritation. Skin irritation. Intense pain if in contact with the eyes. Risk of serious or permanent injuries in the eyes in high concentrations.*

Chemical product hazard class: *Eye irritation: 1*
Corrosive/irritant to skin: 2
Toxicity for specific target-organs (single exposure): 3

Classification system used: *Standard ABNT NBR 14725 Part 2:2009 (corrected version 2:2010).*

Adoption of the Globally Harmonized System for Chemical Products Classification and Labeling, UN.

Appropriate Labeling Elements:



Pictogram:

Word of warning: *Caution; Danger*

Danger Phrases: *May cause allergic reactions on skin.*
Causes serious eye damage.
May cause respiratory irritation.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Type: *Mixture*

Ingredients contributing for the hazard:

Name:	CAS Number:	Concentration range:
<i>Calcium Oxide</i>	1305-78-8 87	<%<97
<i>Paraffinic Oil</i>	8012-95-1	5<%<15

4. FIRST-AID MEASURES

Inhalation: *Immediately take the victim to an aired location and keep them at rest. Immediately wash nose and throat with clean water for a period of 15 to 20 minutes. If necessary, promote artificial respiration and seek medical care immediately.*

Contact with skin: *In case of irritation, remove the contaminated clothes and wash the skin affected with running water and neutral soap. Should irritation persist, seek medical care.*

Contact with the eyes: *Wash eyes with clean water for at least 15 minutes, keeping the eyelids open to remove the product. Seek medical care immediately.*

Swallowing: *Wash your mouth with plenty of water. If the victim is conscious, give plenty of water or milk. Do not cause vomit. Seek medical care immediately.*

Most important symptoms and effects, acute or late: *No data available*

Notes for the Physician: *If necessary, send the victim for urgent medical care at a hospital center. Never give anything orally to anyone unconscious. Symptomatic treatments.*

5. FIREFIGHTING MEASURES

Appropriate means of extinguishment: *Small fires: Carbon dioxide, large amount of water or chemical powder.*
Large fires: Water haze or jet, or foam resistant to alcohol.

Specific hazards related to the measures: *Product not classified as flammable, however, combustion occurs when exposed to temperatures above 200 °C.*
Reacts with water generating heat, which may cause risks to flammable materials.

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Firefighting special methods: *Wear approved equipment containing a device for autonomous positive pressure respiration in case of fire involving this product.*

Protection of individuals involved
in firefighting: *Use the PPE necessary for firefighting.*

6. CONTROL MEASURES FOR SPILLING OR LEAKAGE

Personal precautions

Dust control: *Avoid blunt handling controlling dust formation.*

Prevention of inhalation and contact
with skin, mucous and eyes: *Avoid contact with skin and eyes, keep dust levels as low as possible. Ensure sufficient ventilation or wear adequate respiratory equipment.*

Precautions to the environment: *Do not dispose of in the sewer or in the environment. In large amounts, it may increase water pH, in addition to contamination by oil. Any large scale spill to water courses must be immediately communicated to the environmental authorities.*

Methods for cleaning: *Use vacuum suction units or a shovel to collect the material into a duly identified container. Avoid dust production. Throw dry earth or sand and cover with a plastic to minimize dispersion or contact with rain. Collect the material with clean tools and package it in plastic containers with covers for later destination.*

Prevention of secondary hazards: *Keep materials and products incompatible with the product away.*

Difference in the action of large
and small leakages: *Do not touch the spilled material without wearing adequate protective clothing. Prevent water from contacting the spilled product. Avoid flowing the product into water courses, sewer, basements or confined areas.*

7. HANDLING AND STORAGE

Technical measures appropriate for handling

Prevention of exposure to the worker: *Avoid contact with skin and eyes. Wear protective equipment. Maintain the dust levels at a minimum and delimit sources, using ventilation and exhaustion.*

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Fire and explosion prevention: *Non-applicable*

Hygiene measures

Appropriate: *Wash your hands and face after handling. Contaminated clothes must be changed and washed prior to reuse.*

Inappropriate: *Do not smoke, swallow beverages or foods during product handling.*

Technical measures for storage

Adequate conditions: *Store at an aired and fresh location.*

Bulk storage must be made in an adequate silo.

Keep the product away from acids, significant quantities of paper, haw and nitro-components.

Conditions to be avoided: *Humid locations, with high temperatures and without ventilation.*

Packaging materials

Recommended: *Impermeable materials to protect from moisture. Do not use aluminum packages for transportation, if there is the risk of contact with water.*

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Specific control parameters

Occupational exposure limits: *OSHA: 5 mg/m³ in a 8-hour work shift*

HIOSH: 2 mg/m³ in a 10-hour work shift

ACGIH: 2 mg/m³ in a 8-hour work shift

Engineering control measures: *Promote ventilation and exhaustion system. It is recommend emergency showers and eye-washers in the workplace.*

Appropriate Personal Protective Equipment

Eyes/face protection: *Dust protection goggles.*

Skin and body protection: *Procedure gloves and protection cream. Wash your hands well after handling and apply a hydrating cream. Keep uniforms and PPE separated from clean clothes, preventing possible contaminations.*

Respiratory Protection: *Semifacial dust mask.*

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9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Aspect:	<i>White and gray powder</i>
Odor:	<i>Odorless</i>
pH:	<i>12.0 (1% in water)</i>
Melting/freezing point:	<i>No data available</i>
Boiling point:	<i>No data available</i>
Flash point:	<i>Above 200 °C</i>
Evaporation rate:	<i>No data available</i>
Flammability:	<i>No data available</i>
Flammability limit:	<i>No data available</i>
Vapor pressure:	<i>No data available</i>
Vapor density:	<i>No data available</i>
Relative density:	<i>No data available</i>
Solubility:	<i>Soluble in acids and water, forming calcium salts and hydroxide, and generating a large amount of heat. It is practically insoluble in alcohol.</i>
N-octanol/water partition coefficient:	<i>No data available</i>
Self-ignition temperature:	<i>No data available</i>
Decomposition temperature:	<i>No data available</i>
Viscosity:	<i>No data available</i>

10. STABILITY AND REACTIVITY

Reactivity:	<i>No data available.</i>
Chemical Stability:	<i>Stable in normal temperature and pressure conditions.</i>
Conditions to be avoided:	<i>Avoid atmospheric exposure and moisture.</i>
Hazardous decomposition products:	<i>Reacts exothermally with water, forming calcium hydroxide. Reacts exothermally with acids, forming calcium salts.</i>

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11. TOXICOLOGIC INFORMATION

Acute toxicity:	<i>No data available</i>
Skin irritation/corrosion:	<i>Irritant, mainly in the presence of moisture. May cause burns on sensitive or wounded skin.</i>
Serious eye injuries/eye irritation:	<i>Contact with the eyes causes strong irritation and pain. May cause severe and permanent injuries.</i>
Respiratory or skin sensitization:	<i>LC₅₀ (inhalation, rats): >100 mg/L. causes moderate irritation on the upper respiratory tract.</i>
Sensitization in germination cells:	<i>No data available</i>
Carcinogenicity:	<i>No data available</i>
Toxicity to reproduction:	<i>No data available</i>
Toxicity for specific target-organs – single exposure:	<i>No data available</i>
Toxicity for specific target-organs – repeated exposure:	<i>No data available</i>
Hazard due to aspiration:	<i>No data available</i>

12. ECOLOGIC INFORMATION

Environmental effects, behavior and impacts of the product:

Ecotoxicity:	<i>In high concentrations, causes change in the pH.</i>
Degradability persistence:	<i>Non-organic product with a high precipitation power. Reacts with moisture and carbon dioxide, forming calcium carbonate.</i>
Mobility on the soil:	<i>No detectable bioaccumulation. Materials soluble in calcium and calcium carbonate naturally found in the ecosystems.</i>
<i>Calcium oxide is used as stabilizer for soils.</i>	
Other adverse effects:	<i>No other environmental harms known for this product.</i>

13. CONSIDERATIONS ON THE FINAL DESTINATION

Methods recommended for treatment and disposal applied to:

Product waste:	<i>Dispose of in sanitary landfills according to the applicable laws.</i>
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Used package:

Packages may be reused, provided that they are washed with plenty of water. Carton boxes must be recycled, provided that not contaminated with the product. Disposable packages must be incinerated.

14. INFORMATION ON TRANSPORTATION

National and international regulations

Land

UN Number:	1910
Appropriate shipment number:	Calcium Oxide Encapsulated in Oil
Risk class/main risk subclass:	8
Risk number:	80
Package group:	III
Hazard to the environment:	No data available

15. INFORMATION ON REGULATIONS

Standard ABNT NBR 14725-2:2009 – Corrected version 2010

Standard ABNT NBR 14725-4:2014

16. OTHER INFORMATION

This CMSDS was elaborated based on the current knowledge about the chemical product and provides basic information regarding protection, safety, health and the environment.

We warn you that the handling of any chemical substance requires the previous knowledge of its hazards by the user. The company using the product is responsible for promoting the training of its employees and contractors as to the possible risks resulting of the product.