

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 1 of 7

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: *Poroso AZBR*
Internal identification code: *04000009*
Company Name: *Proquitec Indústria de Produtos Químicos e Repres. Coml. S.A.*
Address: *Rua Ifema, 291 - Vargem Grande Paulista - SP*
Emergency Phone No.: *55 (11) 4158 8400*
Fax: *55 (11) 4158 3184*
Homepage: <http://www.proquitec.com.br>

2. HAZARDS IDENTIFICATION

Most important hazards: *Flammable. Hazardous if inhaled or swallowed. Irritating for the eyes and the respiratory system. Risk of explosion if heated in a closed location. When heated, it presents a risk of decomposition with strong gas release.*

Product effects

Adverse effects to human health: *May be harmful when swallowed, inhaled and/or in contact with skin.*
Environmental Effects: *Does not offer risks to the environment.*
Physical and Chemical Hazards: *Risk of explosion if heated in a closed location.*
Main symptoms: *Nose and throat irritation. Coughing and difficult breathing.*
Chemical product hazard class: *Respiratory sensitizer: Category 1*
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: *Danger*

Danger Phrases: *May cause allergies or respiratory difficulties.*

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 2 of 7

Type: *Substance*

Chemical Name: *Azodicarbonamide*

Synonyms: *1,1' - azobisformamide; Azobiscarboxamide; Diazenedicarboxamide*

Molecular formula: *C₂H₄N₄O₂*

Molar mass: *116.08 g/mole*

CAS Number: *123-77-3*

4. FIRST-AID MEASURES

Inhalation: *Take the victim to an aired location. 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 soap.*

Contact with the eyes: *Wash the eyes with plenty of clean water, keeping the eyelids open. Seek medical care immediately.*

Swallowing: *Wash mouth with plenty of water and seek medical care immediately.*

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

Notes for the Physician: *Symptomatic treatments.*

5. FIREFIGHTING MEASURES

Appropriate means of extinguishment: *Carbon dioxide, large amount of water or chemical powder*

Specific hazards related to the measures: *Risk of Explosion of the vial if heated in confinement. This product, like the other products in powder form, may be capable of generating dust in case of explosion.*

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

Protection of individuals involved in fire-fighting: *Use the PPE necessary for fire-fighting.*

6. CONTROL MEASURES FOR SPILLING OR LEAKAGE

Personal precautions

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 3 of 7

Dust control:	<i>Avoid blunt handling controlling dust formation.</i>
Prevention of inhalation and contact with skin, mucosa and eyes:	<i>Respect the protection measures referred to in section 8. Aerate the locations.</i>
Precautions to the environment:	<i>Do not dispose of in sewer or in the environment.</i>
Methods for cleaning:	<i>Use vacuum suction units or a shovel to collect the material into a duly identified container. Avoid dust production.</i>
Prevention of secondary hazards:	<i>Keep materials and products incompatible with the product away.</i>
Difference in the action of large and small leakages:	<i>The same actions are preconized for large and small leakages.</i>

7. HANDLING AND STORAGE

Technical measures appropriate for handling

Prevention of exposure to the worker:	<i>Promote an exhaustion system.</i>
Fire and explosion prevention:	<i>Keep at room temperature and at an aired location.</i>

Hygiene measures

Appropriate:	<i>Wash your hands and face after handling. Contaminated clothes must be changed and washed prior to reuse.</i>
Inappropriate:	<i>Do not smoke, swallow beverages or foods when handling the product.</i>

Technical measures for storage

Adequate conditions:	<i>Store at a dry and aired location.</i>
Conditions to be avoided:	<i>Locations, with high temperatures and without ventilation.</i>

Packaging materials

Recommended:	<i>PE, PP, EVA, paper and carton</i>
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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Specific control parameters

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 4 of 7

Occupational exposure limits: *No data available.*

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

Appropriate Personal Protective Equipment

Eyes/face protection: *Dust protection goggles.*

Skin and body protection: *Protective clothing adapted to the handling of chemical products.*

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.*

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Aspect: *Yellow powder*

Odor: *Odorless*

pH: *Non-applicable*

Melting/freezing point: *No data available*

Boiling point: *No data available*

Flash point: *No data available*

Evaporation rate: *No data available*

Flammability: *No data available*

Flammability limit: *No data available*

Vapor pressure: *No data available*

Vapor density: *No data available*

Relative density: *1.65 g/cm³*

Solubility: *Totally soluble in sodium hydroxide.*

N-octanol/water partition coefficient: *No data available*

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 5 of 7

Self-ignition temperature: *No data available*

Decomposition temperature: *> 170 °C*

Viscosity: *No data available*

10. STABILITY AND REACTIVITY

Reactivity: *No data available.*

Chemical Stability: *Stable at room temperature.*

Conditions to be avoided: *Excessive heat. Reactions with alkali, acids, metallic salts and oxidants may occur.*

Hazardous decomposition products: *Carbon Monoxide and Ammonia.*

11. TOXICOLOGIC INFORMATION

Acute toxicity: *LD₅₀ (oral, rats): > 2,000 mg/kg*

Skin irritation/corrosion: *Skin irritation test (rabbit): Non-irritant*

Serious eye injuries/eye irritation: *Eye irritation test (rabbit): Mildly irritant*

Respiratory or skin sensitization: *No data available*

Sensitization in germination cells: *No data available*

Carcinogenicity: *No data available*

Toxicity to reproduction: *No data available*

Toxicity for specific target-organs – single exposure: *No data available*

Toxicity for specific target-organs – repeated exposure: *No data available*

Hazard due to aspiration: *No data available*

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 6 of 7

12. ECOLOGIC INFORMATION

Environmental effects, behavior and impacts of the product:

Ecotoxicity:	<i>Does not offer risks to the environment.</i>
Degradability persistence:	<i>Fast degradation and low persistence expected.</i>
Mobility on the soil:	<i>No data available.</i>
Other adverse effects:	<i>No environmental data known for this product.</i>

13. CONSIDERATIONS ON THE FINAL DESTINATION

Methods recommended for treatment and disposal applied to:

Product waste:	<i>Keep product waste in closed packages duly identified.</i>
Used package:	<i>Packages may be reused, provided that they are washed with plenty of water.</i>

14. INFORMATION ON TRANSPORTATION

National and international regulations

Land

UN Number:	<i>3242</i>
Appropriate name for shipment:	<i>Azodicarbonamide</i>
Risk class/main risk subclass:	<i>4.1</i>
Risk number:	<i>40</i>
Package group:	<i>II</i>
Hazard to the environment:	<i>No data available</i>

15. INFORMATION ON REGULATIONS

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

Standard ABNT NBR 14725-4:2014

Product: **POROSO AZBR**

MSDS No.: 044

Date of last review: 07/02/2017

Pages: 7 of 7

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.