



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

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| Product Identifier | BENZOTRIAZOLE |
| Other identification (Chemical name, Commercial name, Synonymous) | Benzisotriazole; 1,2,3-Benzotriazole; 2,3-Diazaindole; Azimidobenzène; 1,2,3-Tiazaindène; Benzène azimide. |
| Product code | BR-0127 |
| Chemical formula | $C_6H_5N_3$ |
| Molar weight | 119.13 |
| Recommended use and Restrictions on use | For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes. |
| Supplier | LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com |
| Emergency phone | 418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 |
| Date SDS | 2026-06-16 |

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Serious eye damage/eye irritation - Eye irritation - category 2A
- Acute toxicity - Inhalation - category 4
- Acute toxicity - Oral - category 4

PICTOGRAMS



Signal Word

ATTENTION

Hazards statements (H)

- Causes serious eye irritation
- Harmful if inhaled
- Harmful if swallowed

Precautionary statements (P)

- Wash thoroughly after handling.
- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists get medical attention.
- Avoid breathing mists, gases, vapors and other fumes, or the product itself.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)

Health 2
Fire 1
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Component | No. CAS | % Weight |
|---------------|---------|----------|
| BENZOTRIAZOLE | 95-14-7 | <=100% |

SECTION 04 - FIRST AID MEASURE

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| Eye contact | Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention. |
| Skin contact | Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention. |
| Inhalation | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician. |
| Ingestion | If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person. Consult a physician. |
| Most important symptoms and effects (acute and delayed) | Main symptoms of high exposure: Skin, eye and respiratory system irritation. Ref. section 11. |
| Immediate medical attention and special treatment, if necessary | Treat according to symptoms. Show this sheet to the attending physician. |

SECTION 05 - FIREFIGHTING MEASURES

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| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | Data not available. |
| Combustion products | Hazardous combustion products formed under fire conditions: Nitrogen oxides (NOx). Carbon oxides. Carbon dioxide. |
| Specific hazards of the dangerous product | May form combustible dust concentrations in the air. May react violently with incompatible products (Ref Section 10). |
| Special protective equipment and precautions for firefighters | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus. |

SECTION 06 - ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency measures | Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust. |
| Methods and materials for containment and cleaning up | Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided. |

SECTION 07 - HANDLING AND STORAGE

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| Conditions for safe storage | Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10). |
| Methods of handling | Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. Avoid the formation of dust. |

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

| Component | CAS-No. | Value |
|---------------|---------|---|
| BENZOTRIAZOLE | 95-14-7 | No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia. |

Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

Gloves

Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

Eyes

Safety goggles with safety shutters.

Shoes

Use safety shoes.

Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state | Solid. |
| Color | White to light brown. |
| Odour | No odor. |
| Odour threshold | Data not available |
| Melting point and freezing point | 208 to 212 °F. |
| Boiling point | 399 °F at 15 mmHg. |
| Flammability | Data not available. |
| Lower flammable / Explosive limit | Data not available |
| Upper flammable / Explosive limit | Data not available |
| Flash point | 170 °C. |
| Auto-ignition temperature | 210 °C. |
| Decomposition temperature | 260 °C. |
| pH | Data not available |
| Kinematic viscosity | Not applicable. |
| Solubility | 1-5 g/L at 23.7 °C in water. |
| Partition coefficient water/n-octanol | Data not available |
| Vapour pressure | <0.01 kPa at 25 °C. |
| Relative density | 1,36 g/ml à 20 °C. |
| Vapour density | 4.1 (Air = 1). |
| Particle characteristics | Crystal powder. |

SECTION 10 - STABILITY AND REACTIVITY

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| Reactivity | May react violently with incompatible substances. Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | May react violently with incompatible substances. May form combustible dust concentrations in the air. |
| Conditions to avoid | Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation. |
| Incompatible materials | Strong oxidizers. |
| Hazardous decomposition products | Nitrogen oxides (NO _x). Carbon monoxide (CO), Carbon dioxide (CO ₂). |

SECTION 11 - TOXICOLOGICAL INFORMATION

BENZOTRIAZOLE

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| Routes of exposure | Ingestion, inhalation, skin and eye contact. |
| Acute exposition effects / symptoms: | By exposure route below. |
| - Eyes | Irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| - Skin | Irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| - Inhalation | May irritate the respiratory system. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| Acute toxicity (Ingestion) | Mucous membrane irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| Chronic exposure effects / symptoms | To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 560 mg/kg. LD50 Dermal - Rabbit - 2000mg/kg. |
| CL50 (specify species and route of entry) | LC50 Inhalation - Rat - 4 h - 1.4 mg/L. |

SECTION 12 - ECOLOGICAL INFORMATION

BENZOTRIAZOLE

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| Ecotoxicity | Toxicity to fish: LC50 - Lepomis macrochirus - 25 mg/L - 96 h. LC50 - Oncorhynchus mykiss (rainbow trout) - 39 mg/L - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 91 mg/L - 48 h. Toxicity to algae: EC50 - Freshwater algae. 15.4 mg/L - 96 h. |
| Persistence and degradability | Persistence is unlikely based on information provided. |
| Bioaccumulative potential | Data not available. |
| Mobility in soil | Is not likely mobile in the environment due its low water solubility. |
| Other adverse effects | Data not available. |

SECTION 13 - DISPOSAL CONSIDERATIONS

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| Waste Disposal Method | Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company. |
| Contaminated Packaging | Dispose of as unused product. |

SECTION 14 - TRANSPORT INFORMATION

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| UN Number | 3077 |
| UN Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzotriazole) |
| Transport hazard class(es) | Various products, materials or organisms 9 |
| Packing group | III |
| Limited quantity index | 5 kg |
| ERAP Index | - |
| Special precautions | 16,99 |

SECTION 15 - REGULATORY INFORMATION

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| WHIMS CANADA | - Serious eye damage/eye irritation - Eye irritation - category 2A - Acute toxicity - Inhalation - category 4 - Acute toxicity - Oral - category 4 |
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SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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