



Centre Anti-Poison pour le Québec: (800) 463-5060

Tél. (Qc): (418) 660-8666 / 800-890-8666


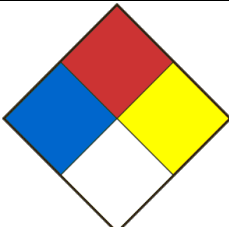
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--|------------------------------------|---|------------------------|
| Product Identifier Bromothymol blue sodium salt 1% / methanol | | Product Use Laboratory use | |
| Chemical formula <chem>C27H27O5SBr2Na</chem> | | Product code BS-1010 | Molar weight 646,38 |
| Chemical name / Commercial name / Synonymous SODIUM BROMOTHYMOL BLUE; 3',3''-DIBROMOTHYMOLSULFONEPHTHALEIN, SODIUM SALT; PHENOL, 4,4'-(3H-2,1-BENZOXATHIOL-3-YLIDENE)BIS(2-BROMO-3-METHYL-6-(1-METHYLETHYL)-, S,S-DIOXIDE, MONOSODIUM SALT; | | | |
| Supplier's name Laboratoire MAT | | Address-Street 610, Adanac Street | |
| City Québec | | Province Québec | |
| Postal code G1C 7B7 | Internet www.labmat.com | Phone number 418-660-8666 / 800-890-8666 | |
| Emergency phone | CANUTEC: 613-996-6666 | CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 | |
| Date SDS 11/1/2021 | SDS Prepared by Laboratoire MAT | E-Mail labmat@labmat.com | |

SECTION 02 - HAZARDS IDENTIFICATION

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| Classification WHIMS / GHS | <p>Flammable liquids category 2</p> <p>Specific Target Organ Toxicity - Single exposure category 1</p> <p>Acute toxicity - Oral category 4</p> <p>Acute toxicity - Dermal category 3</p> <p>Acute toxicity - Inhalation category 3</p> |
| Signal Word | DANGER |
| Hazards statements (H) | <p>H225 Highly flammable liquid and vapor.</p> <p>H302 Harmful if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H331 Toxic if inhaled.</p> <p>H370 Causes damage to organs.</p> |
| Precautionary statements (P) | <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P308 + P311 IF exposed or concerned: Call a POISON CENTER or a doctor.</p> <p>P311 Call a POISON CENTER or doctor/physician.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> |
| PICTOGRAMS |  |
| Other dangers | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme) |
|  | <p>Health 2</p> <p>Fire 4</p> <p>Reactivity 0</p> <p>Special danger</p> |

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
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| Bleu de bromothymol sel de sodium Méthanol | 34722-90-2 67-56-1 | 1 99 |

SECTION 04 - FIRST AID MEASURES

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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 soiled clothing. If irritation persists, seek medical attention. |
| Inhalation | If breathed in, move person into 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: Blurry vision. Dizziness. Nausea and vomiting. Diarrhea. Digestive disorders. Tiredness. Headaches. Ref. section 11. |
| Immediate medical attention and special treatment, if necessary | In case of medical consultation, keep this sheet available. In case of poisoning, the following can be administered as an antidote: Fomepizole. Ethyl alcohol. Folinic acid or folic acid as an adjuvant can be given in case of methanol poisoning. |
| General advice | Show this safety data sheet to the doctor in attendance. |

SECTION 05 - FIREFIGHTING MEASURES

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| Flammability | Yes |
| Ignition conditions | Strong oxidizing agents, heat, sparks and open flame. Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |
| Hazardous combustion products | Hazardous combustion products formed under fire conditions: Formaldehyde. Carbon oxides, Sulfur oxides, Hydrogen bromide gas, Sodium oxides. |
| Special fire and explosion hazards | 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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| Methods and materials for containment and cleaning up / Personnel precautions, protective equipment | Evacuate personnel to safe areas. Cut off all sources of ignition. Avoid the accumulation of charges electrostatic. Avoid breathing vapors, mist or gas. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if necessary. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not let product enter drains. |
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SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

| Components | CAS-No. | Value | Control parameters | Basis |
|------------|--|-------|------------------------------------|---|
| Methanol | 67-56-1 | TWA | 200.000000 ppm 262.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| Remarks | Substance may be readily absorbed through intact skin | | | |
| | | STEL | 250.000000 ppm 328.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | Substance may be readily absorbed through intact skin | | | |
| | | TWA | 200.000000 ppm | Canada. British Columbia OEL |
| | Contributes significantly to the overall exposure by the skin route. | | | |
| | | STEL | 250.000000 ppm | Canada. British Columbia OEL |
| | Contributes significantly to the overall exposure by the skin route. | | | |
| | | TWAEV | 200.000000 ppm 262.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | | |
| | | STEV | 250.000000 ppm 328.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | | |
| | | TWA | 200.000000 ppm | USA. ACGIH Threshold Limit Values (TLV) |
| | | STEL | 250.000000 ppm | USA. ACGIH Threshold Limit Values (TLV) |

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| Data source | Sigma-Aldrich (Millipore Sigma) |
| Ventilation | Fan. |
| Respiratory | If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply. |
| Gloves | Handle with gloves. |
| Eyes | Safety goggles with safety shutters. |
| Shoes | Safety shoes. |
| Clothing | 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 | 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 | Liquid. |
| Appearance | Liquide vert opaque- |
| Odour | Typique de l'acool. |
| Odour threshold | Data not available |
| pH | Donnée non disponible. |
| Melting point / Freezing point | -97.8 (Méthanol)°C |
| Initial boiling point | 64.6 (Méthanol)°C |
| Boiling range | Data not available |
| Flash point | 9.7 °C @ 101.3 kPa (Coupelle fermée) (Méthanol)- |
| Evaporation rate | <=0.001 (Méthanol)% |
| Flammability | Yes |
| Lower flammable / Explosive limit | 6 (Méthanol)% |
| Upper flammable / Explosive limit | 36 (Méthanol)% |
| Vapour pressure | 130.3 hPa (97.7 mmHg) à 20.0 °C / 169.27 hPa (126.96 mmHg) à 25.0°C (Méthanol)- |
| Solubility | Miscible avec l'eau, les alcools et l'éther, acétone. |
| Vapour density | 1.11 (Méthanol)- |
| Relative density | 0.791g/ml |
| Partition coefficient water/n-octanol | Data not available |
| Auto-ignition temperature | 455.0 °C à 1,013 hPa (760 mmHg) (Méthanol)- |
| Decomposition temperature | Data not available |
| Viscosity | 0.544 mPa sec (at 25 deg C) (Méthanol)- |

SECTION 10 - STABILITY AND REACTIVITY

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| Reactivity | Flammable product, may ignite with source of ignition, if temperature above flash point. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | Stable under normal conditions. Vapors may form explosive mixture with air. |
| Conditions of instability (Including sensitivity to shock / static discharge / vibration) | Avoid contact with incompatible materials and extreme temperatures. Heat, flames, sparks. |
| Incompatible material | Acids, Oxidants, Acid Chlorides, Acid Anhydrides, Alkali Metals, Reducing Agents. |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and dioxide. Formaldehyde. - Hydrogen bromide gas, Sodium oxides - Sulphur oxides. |

SECTION 11 - TOXICOLOGICAL INFORMATION

METHANOL

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| Routes of exposure | Ingestion, inhalation, skin and eyes. |
| Acute exposition effects / symptoms: | By exposure route below. |
| - Eyes | May cause eye irritation. |
| - Skin | Irritation and dermatitis. |
| - Inhalation | Irritation of the mucous membranes and respiratory tract. Narcotic effects, chest pain, cough, dyspnea, headache, dizziness, watery eyes, paresthesia, nystagmus, drowsiness, confusion, nausea and vomiting. |
| Acute toxicity (Ingestion) | Irritation of the mucous membranes. Narcotic effects, liver, kidney and eye damage, abdominal pain, cramps, diarrhea, headache, dizziness, paresthesia, nystagmus, drowsiness, incoordination, acidosis, nausea and vomiting, seizures, hypotension, respiratory collapse, loss of consciousness, coma and can lead to death. Acute absorption of methanol can cause blindness. Damage to: liver, kidneys, eyes, heart, central nervous system. |
| Chronic exposure effects / symptoms | Headache, dizziness, nausea, visual disturbances, decreased visual acuity, liver and kidney damage. |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 1187 mg/kg LD50 Dermal - Lapin-15840 mg/kg |
| CL50 (specify species and route of entry) | LC50 Inhalation - Rat: 64000 ppm/4 h. LC50 Inhalation - Rat 115.9-130.7mg/L air / 4h. |

BROMOTHYMOL BLUE SODIUM SALT(SOLUBLE)

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| Routes of exposure | To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Acute exposition effects / symptoms: | By exposure route below. |
| - Eyes | To our knowledge, the product has not been fully studied. |
| - Skin | To our knowledge, the product has not been fully studied. |
| - Inhalation | To our knowledge, the product has not been fully studied. |
| Acute toxicity (Ingestion) | To our knowledge, the product has not been fully studied. |
| 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 - Data not available. LD50 Dermal - Data not available. |
| CL50 (specify species and route of entry) | LC50 - Inhalation - Data not available. |

SUMMARY

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| Acute exposure effects / Symptoms: | By exposure routes below. |
| Ingestion | To our knowledge, the product has not been fully evaluated |
| Inhalation | To our knowledge, the product has not been fully evaluated |
| Skin | To our knowledge, the product has not been fully evaluated |
| Eyes | To our knowledge, the product has not been fully evaluated |
| Chronic exposure effects / Symptoms: | To our knowledge, the product has not been fully evaluated |
| ETA Mix (Estimated Acute Toxicity) | LD50 Oral: 1188 mg/kg - Rat LD50 Dermal: 15848 mg/kg - Rabbit LC50 Inhalation: 64032 ppm - 4h - Rat |

SECTION 12 - ECOLOGICAL INFORMATION

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| Ecotoxicity | Methanol: Toxicity to fish: mortality LC50 - <i>Lepomis macrochirus</i> (Bluegill) - 15,400.0 mg/l - 96 h. |
| Persistence and degradability | Biodegradability aerobic Result: 72 % - rapidly biodegradable. |
| Bioaccumulative potential | Bioaccumulation <i>Cyprinus carpio</i> (Carp) - 72 d at 20 °C Bioconcentration factor (BCF): 1. |
| Mobility in soil | Will not adsorb on soil. |
| Other adverse effects | Avoid release to the environment. |

SECTION 13 - DISPOSAL CONSIDERATIONS

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| Waste Disposal Method | Dispose of contents / container in accordance with local / regional / national / international 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 | 1992 |
| UN Proper shipping name | LIQUIDE INFLAMMABLE, TOXIQUE, N.S.A.(Méthanol) |
| Transport hazard class(es) | 3 Flammable liquids 6.1 Toxic substances |
| Packing group | II |
| Limited quantity index | 1L |
| ERAP Index | - |
| Special precautions | 16 |

SECTION 15 - REGULATORY INFORMATION

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| WHIMS CANADA | Flammable liquids category 2 Specific Target Organ Toxicity - Single exposure category 1 Acute toxicity - Oral category 4 Acute toxicity - Dermal category 3 Acute toxicity - Inhalation category 3 |
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SECTION 16 - OTHER INFORMATION

Further information

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.

Last Update: 11/1/2021