



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

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


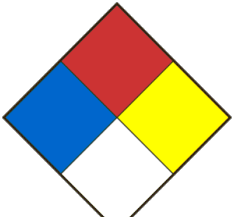
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|---|------------------------------------|---|---|
| Product Identifier 2-METHYLE-1-PROPANOL | | Product Use Laboratory use | |
| Chemical formula (CH ₃) ₂ CHCH ₂ OH | | Product code MR-0239 | Molar weight 74,12 |
| Chemical name / Commercial name / Synonymous ISOBUTYL ALCOHOL, 2-METHYL-1-PROPANOL, ISOBUTANOL, ALCOOL ISOBUTYLIQUE, ISOPROPYLCARBINOL, 1-HYDROXYMÉTHYLPROPANE, 2-METHYLPROPYL ALCOHOL, FERMENTATION BUTYL ALCOHOL | | | |
| 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 7/7/2020 | SDS Prepared by Laboratoire MAT | E-Mail labmat@labmat.com | |

SECTION 02 - HAZARDS IDENTIFICATION

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| Classification WHIMS / GHS | <p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Flammable liquids category 3</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Specific target organ toxicity - Single exposure category 3</p> |
| Signal Word | <p>DANGER</p> |
| Hazards statements (H) | <p>H226 Flammable liquid and vapour.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</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>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</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>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>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately 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>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P362 + P364 Take off 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 | <p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)</p> |
|  | <p>Health 1</p> <p>Fire 3</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 (%) |
|---|--|-------------------|
| 2-Méthyl-1-propanol | 78-83-1 | <=100 |

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 | Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician. |
| Ingestion | If the person is conscious, rinse the mouth with water. Never give anything by mouth to an unconscious person. Consult a physician. |
| Most important symptoms and effects (acute and delayed) | Ref. section 11. |
| Immediate medical attention and special treatment, if necessary | In case of medical consultation, keep this sheet available. |
| 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. |
| Suitable extinguishing media | Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam. |
| Unsuitable extinguishing media | Do not use a concentrated stream of water that could spread fire. |
| Hazardous combustion / decomposition products | Hazardous decomposition products formed under fire conditions. Carbon oxides. |
| Special fire and explosion hazards | May react violently with incompatible products (Ref Section 10). Vapors may travel a great distance and ignite on sources of ignition such as heaters, electrical appliances, cigarettes, sparks, etc. Containers exposed to fire may explode. Vapors may form flammable or explosive mixtures with air. If heated above 100 ° C, isobutyl alcohol combined with aluminum may form hydrogen; a highly flammable gas. |
| 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. 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. Avoid breathing vapours, mist or gas. Do not let product enter drains. |
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SECTION 07 - HANDLING AND STORAGE

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| Conditions for safe storage | Keep container tightly closed and store away from strong oxidants, heat, sparks and open flame. Store in a cool, dry place. Store in a well-ventilated area. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays. |
| Methods of handling | Bottle in the glass only.NOTE: can attack certain types of plastics and rubbers. Ensure good ventilation. Avoid contact with the skin, eyes and clothes. Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge. |

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

| Components | CAS-No. | Value | Control parameters | Basis |
|----------------------|---------|-------|-----------------------|---|
| 2-METHYLE-1-PROPANOL | 78-83-1 | TWA | 50 ppm | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | TWA | 152 mg/m ³ | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | | TWA | 50 ppm | Canada. British Columbia OEL |
| | | TWA | 50 ppm | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | | TWA | 152 mg/m ³ | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |

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| Ventilation | Use fan. |
| Respiratory | If work under the hood is not possible, or 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 | Incolore. |
| Odour | Aromatique. |
| Odour threshold | 40.0ppm |
| pH | Données non disponibles. |
| Melting point / Freezing point | -108°C |
| Initial boiling point | 108°C |
| Boiling range | Data not available |
| Flash point | 28°C |
| Evaporation rate | 0.82 (Butyl acetate = 1)% |
| Flammability | Yes |
| Lower flammable / Explosive limit | 1.6% |
| Upper flammable / Explosive limit | 10.9% |
| Vapour pressure | 8.8 mmHg @ 20°C. |
| Vapour density | 2.55 (Air = 1)- |
| Relative density | 0.803g/cm ³ |
| Solubility | Peu soluble dans l'eau (5-10%). Miscible avec l'alcool et l'éther. |
| Partition coefficient water/n-octanol | log Pow : 1 à 25°C- |
| Auto-ignition temperature | 415°C |
| Decomposition temperature | Data not available |
| Viscosity | 4.00 mm ² /s à 20°C. |

SECTION 10 - STABILITY AND REACTIVITY

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| Reactivity | Non-reactive under normal conditions. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | Stable under normal conditions. |
| Conditions of instability (Including sensitivity to shock / static discharge / vibration) | Avoid excessive heat. Heat, flames, sparks. Avoid the accumulation of static electricity. |
| Incompatible material | Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), acid chlorides and anhydrides, aluminum, chromium trioxide, heat and moisture. Aldehydes. Isocyanates. Acids. |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and dioxide. |

SECTION 11 - TOXICOLOGICAL INFORMATION

2-METHYLE-1-PROPANOL

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| Routes of exposure | Ingestion, inhalation, skin and eyes. |
| Acute exposition effects / symptoms: | By exposure route below. |
| - Eyes | Severe irritation and may result in inflammation of the conjunctiva. |
| - Skin | Irritation and dermatitis. Prolonged exposure may cause erythematous lesions associated with burns. |
| - Inhalation | Irritation of the mucous membranes and respiratory tract. Narcotic effects, cough, dyspnea, headache, dizziness, drowsiness, confusion, erythema, nausea and vomiting. |
| Acute toxicity (Ingestion) | Irritation of the mucous membranes. Apprenez à prononcer Narcotic effects, liver and kidney damage, cramps, diarrhea, headache, dizziness, drowsiness, erythema, seizures, nausea and vomiting. |
| Chronic exposure effects / symptoms | Burning sensation, dermatitis, conjunctivitis, narcotic effects, chest pain, cough, dyspnea, headache, dizziness, drowsiness, confusion, irritability, erythema, fatigue, nausea and vomiting. |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 2460 mg/kg LD50 Dermal - Rabbit - 3400 mg/kg |
| CL50 (specify species and route of entry) | CL50 inhalation - Rat 6.5 mg/L - 4 h |

SECTION 12 - ECOLOGICAL INFORMATION

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| Ecotoxicity | LC50 - Lepomis macrochirus - 1480-1730 mg/L - 96 h - flow/through. LC50 - Pimephales promelas (fathead minnow) - 375 mg/L - 96 h - static. 1370-1670 mg/L - 96 h - flow-through LC50 - Oncorhynchus mykiss (rainbow trout) - 1120-1520 mg/L - 96 h - flow-through. EC50 - Daphnia magna (Water flea) - 1300 mg/L - 48 h. EC50 - Pseudokirchneriella subcapitata (green algae) - 1.799 mg/L - 72 h - static. |
| Persistence and degradability | Biodegradability aerobic - Exposure time 28 d(iso-Butanol) Result: 70 - 80 % - Readily biodegradable (OECD Test Guideline 301D). |
| Bioaccumulative potential | Data not available. |
| Mobility in soil | Probable mobility due to its solubility in water. |
| Other adverse effects | Data not available. |

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 | 1212 |
| UN Proper shipping name | ALCOOL ISOBUTYLIQUE ou ISOBUTANOL |
| Transport hazard class(es) | 3 Flammable liquids |
| Packing group | III |
| Limited quantity index | 5L |
| ERAP Index | - |
| Special precautions | - |

SECTION 15 - REGULATORY INFORMATION

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| WHIMS CANADA | Skin corrosion/irritation - Skin irritation category 2 Flammable liquids category 3 Serious eye damage/eye irritation - Serious eye damage category 1 Specific target organ toxicity - Single exposure 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: 7/7/2020