



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

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


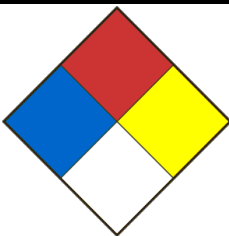
Fax. (Qc): (418) 660-8998

SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--|------------------------------------|---|---|
| Product Identifier 1-PROPANOL | | Product Use Laboratory use | |
| Chemical formula CH ₃ CH ₂ CH ₂ OH | | Product code PR-0216 ; PH-0102 | Molar weight 60,1 |
| Chemical name / Commercial name / Synonymous n-PROPYL ALCOHOL, 1-PROPYL ALCOHOL, ALCOOL PROPYLIQUE NORMAL, N-PROPANOL, PROPAN-1-OL, ETHYL CARBINOL, 1-HYDROXYPROPANE, OPTAL | | | |
| 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 8/5/2019 | SDS Prepared by Laboratoire MAT | E-Mail labmat@labmat.com | |

SECTION 02 - HAZARDS IDENTIFICATION

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| Classification WHIMS / GHS | Flammable liquids category 2 Serious eye damage/eye irritation - Serious eye damage category 1 Specific target organ toxicity - Single exposure category 3 |
| Signal Word | DANGER |
| Hazards statements (H) | H225 Highly flammable liquid and vapour. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. |
| Precautionary statements (P) | P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company. |
| PICTOGRAMS |  |
| Other dangers | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme) |
|  | Health 1 Fire 4 Reactivity 0 Special danger |

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|---|--|-------------------|
| 1-propanol | 71-23-8 | <=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 | Do NOT induce vomiting. 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 | Heat, sparks and open flame. No smoking. |
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Closed containers can be cooled by water spray. |
| Unsuitable extinguishing media | The water could be ineffective. |
| Hazardous combustion / decomposition products | Hazardous decomposition products formed under fire conditions. Carbon oxides. |
| Special fire and explosion hazards | Vapors may rise to the source of ignition and flash back. Containers may explode when heated. 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 / Personal precautions, protective equipment | Evacuate personnel to safe areas. Remove all sources of ignition. 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. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 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 in a dry and well-ventilated place. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays. |
| Methods of handling | Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Avoid contact with the skin, eyes and clothes. Use only under a fume hood. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14) |

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

| Components | CAS-No. | Value | Control parameters | Basis |
|------------|--|-------|----------------------------------|---|
| n-Propanol | 71-23-8 | TWA | 200 ppm 492 mg/m ³ | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| Remarks | Substance may be readily absorbed through intact skin | | | |
| | | STEL | 250 ppm 614 mg/m ³ | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | Substance may be readily absorbed through intact skin | | | |
| | | STEL | 400 ppm 984 mg/m ³ | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required | | | |
| | | TWA | 200 ppm 492 mg/m ³ | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL) |
| | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required | | | |
| | | TWA | 100 ppm | Canada. British Columbia OEL |
| | | STEV | 250 ppm 615 mg/m ³ | Canada. Ontario OELs |
| | | TWAEV | 200 ppm 492 mg/m ³ | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | | |
| | | STEV | 250 ppm 614 mg/m ³ | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
| | Skin (percutaneous) | | | |
| | | TWA | 100 ppm | USA. ACGIH Threshold Limit Values (TLV) |

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| Data source | Sigma-Aldrich. |
| 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 incolore- |
| Odour | Odeur de l'alcool. |
| Odour threshold | 2.0ppm |
| pH | 7 (200 g/l à 20°C). |
| Melting point / Freezing point | -127°C |
| Initial boiling point | 97°C |
| Boiling range | Donnée non disponible °C |
| Flash point | 23.5°C à 101.325 kPa. |
| Evaporation rate | 1.3% |
| Flammability | Yes |
| Lower flammable / Explosive limit | 2.1% |
| Upper flammable / Explosive limit | 13.7% |
| Vapour pressure | 14.9 mmHg @ 20°C. |
| Vapour density | 2.07 (Air = 1). |
| Relative density | 0.804g/cm ³ |
| Solubility | Miscible avec l'eau en toutes proportions. Miscible avec l'alcool et l'éther. |
| Partition coefficient water/n-octanol | 0.25- |
| Auto-ignition temperature | 412°C |
| Decomposition temperature | Data not available |
| Viscosity | 2.3 mPa.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) | Heat, flames and sparks. Avoid excessive heat. Sensitive to the air. |
| Incompatible material | Strong acids, strong oxidants. The vapor mixes well with air; explosive mixtures are easily formed. |
| Hazardous decomposition products | Toxic vapors of carbon monoxide and dioxide. |

SECTION 11 - TOXICOLOGICAL INFORMATION

1-PROPANOL

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| Routes of exposure | Ingestion, inhalation, skin and eyes. |
| Acute exposition effects / symptoms: | By exposure route below. |
| - Eyes | Irritation and may cause inflammation of the conjunctiva. |
| - Skin | Irritation and dermatitis. |
| - Inhalation | Irritation of the mucous membranes and respiratory tract. |
| Acute toxicity (Ingestion) | Irritation of the mucous membranes. May be harmful if swallowed. |
| Chronic exposure effects / symptoms | Inhalation of high vapor concentrations may cause symptoms such as headache, dizziness, tiredness, nausea and vomiting. |
| DL50 (specify species and route of entry) | LD50 Oral - Rat - 1870 mg/kg LD50 Dermal - Rabbit - 4049 mg/kg |
| CL50 (specify species and route of entry) | CL50 inhalation - Rat 13548 ppm - 4 h |

SECTION 12 - ECOLOGICAL INFORMATION

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| Ecotoxicity | LC50 - Pimephales promelas (fathead minnow) - 4555 mg/L - 96 h EC50 - Daphnia magna (Water flea) - 3642 mg/L - 48 h EC50 - Pseudokirchneriella subcapitata (green algae) - 9170 mg/L - 48 h |
| Persistence and degradability | Biodegradability Result: 75 % - Readily biodegradable. |
| Bioaccumulative potential | The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected. |
| 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 | 1274 |
| UN Proper shipping name | ALCOOL PROPYLIQUE NORMAL -OU- n-PROPANOL |
| Transport hazard class(es) | 3 Flammable liquids |
| Packing group | II |
| Limited quantity index | 1L |
| ERAP Index | - |
| Special precautions | - |

SECTION 15 - REGULATORY INFORMATION

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| WHIMS CANADA | Flammable liquids category 2 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.

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