



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

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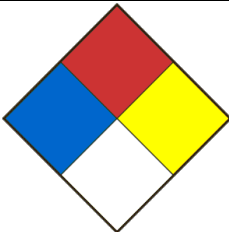
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier CUMENE		Product Use Laboratory use	
Chemical formula $C_6H_5CH(CH_3)_2$		Product code CR-0174	Molar weight 120,19
Chemical name / Commercial name / Synonymous Isopropylbenzène; 2-phénylpropane; cumène; cumol; Isopropylbenzol			
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 7/29/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Flammable liquids category 3 Aspiration hazard category 1 Specific target organ toxicity - Single exposure category 3
Signal Word	DANGER
Hazards statements (H)	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H335 May cause respiratory irritation.
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. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P331 Do NOT induce vomiting. P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction. 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. P261 Avoid breathing dust / fume / gas / mist / vapours / spray. P271 Use only outdoors or in a well-ventilated area. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 2 Fire 3 Reactivity 1 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Cumène	98-82-8	<=100

SECTION 04 - FIRST AID MEASURES

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, give water to drink. Do NOT induce vomiting. 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

Flammability	Yes
Ignition conditions	Flammable in the presence of a source of ignition when the temperature is above the flash point. Heat, sparks and open flame. No smoking.
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 / decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides.
Special fire and explosion hazards	Containers exposed to fire may explode. Vapors may form flammable or explosive mixtures with air. Vapors may rise to the source of ignition and flash back. 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

Methods and materials for containment and cleaning up / Personnel precautions, protective equipment	Evacuate personnel to safe areas. Remove all sources of ignition. Avoid the accumulation of charges electrostatic. Avoid breathing vapours, mist or gas. Vapours can accumulate in low areas. 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. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Keep container tightly closed and store away from strong oxidants, heat, sparks and open flame. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges.
Methods of handling	Bottle in the glass only. Always open containers slowly to allow any excess pressure to vent. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Avoid ingestion and inhalation. 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	No.-CAS	Control parameters	Value	Basis
Cumene	98-82-8	TWA	50ppm 246 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	25ppm	Canada. British Columbia OEL
		STEL	75 ppm	Canada. British Columbia OEL
Remarks	IARC '2B' applies to substances deemed possibly carcinogenic to humans.			
		TWAEV	50 ppm 246mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

Data source	Fisher Scientific
Ventilation	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

Physical state	Liquid.
Appearance	Liquide incolore.
Odour	Donnée non disponible.
Odour threshold	Data not available
pH	Donnée non-disponible.
Melting point / Freezing point	-96°C
Initial boiling point	152-154°C
Boiling range	Data not available
Flash point	31°C
Evaporation rate	13.9 (ether=1)%
Flammability	Yes
Lower flammable / Explosive limit	0.9% v/v
Upper flammable / Explosive limit	6.5% v/v
Vapour pressure	10.7 hPa at 20.0 °C.
Vapour density	Data not available
Relative density	0.862g/ml à 20°C
Solubility	Insoluble dans l'eau 0.06 g/l at 25 °C.
Partition coefficient water/n-octanol	log Pow: 3.55 at 23 °C-
Auto-ignition temperature	425°C
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Heat, flames and sparks.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Heat, flames, sparks. Avoid the accumulation of static electricity.
Incompatible material	Strong oxidants.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

CUMENE

Routes of exposure	Ingestion, inhalation, skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation. To our knowledge, the product has not been fully studied.
- Skin	No irritation if in contact with the skin. To our knowledge, the product has not been fully studied.
- Inhalation	May cause respiratory tract irritation. Overexposure can cause the following symptoms: Headache, dizziness, nausea and vomiting. Fatigue. May be fatal if it gets into the airways. To our knowledge, the product has not been fully studied.
Acute toxicity (Ingestion)	If swallowed, this product could be aspirated and cause lung damage. To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	Prolonged or repeated exposure to this product can cause damage to the following organs: Narcosis, liver or kidneys lesions may occur. Depression of the central nervous system. Dermatitis. Gastrointestinal disturbance. Damage to the lungs. Stomach - Irregularities - Based on the effect observed in humans Is recognized as a possible carcinogen for humans (class 2B) by IARC. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 2260 mg/kg LD50 Dermal - Rabbit - 3160 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 39 mg/l.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 4.8 mg/L - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia (water flea) - 2.14 mg/l - 48h. Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (green algae) - 2.6 mg/l - 72h.
Persistence and degradability	Biodegradability Result: Difficult to biodegrade.
Bioaccumulative potential	Data not available.
Mobility in soil	Is not likely mobile in soil due its low water solubility.
Other adverse effects	Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

UN Number	1918
UN Proper shipping name	ISOPROPYLBENZÈNE
Transport hazard class(es)	3 Flammable liquids
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 3 Aspiration hazard 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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