



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

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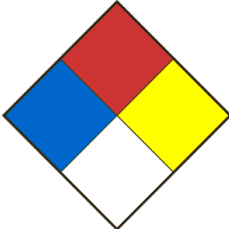
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SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier METHYL METHACRYLATE		Product Use Laboratory use	
Chemical formula $H_2C=C(CH_3)CO_2CH_3$		Product code MP-0197	Molar weight 100,12
Chemical name / Commercial name / Synonymous METHYL METHACRYLATE, MMA; METHACRYLIC ACID METHYL ESTER, METHYL-2-METHYL-2-PROPENOATE, 2-METHYL-2-PROPENOIC ACID METHYL ESTER			
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 11/9/2022	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Flammable liquids category 2 Skin corrosion/irritation - Skin irritation category 2 Respiratory or skin sensitization - Skin sensitize category 1 Specific target organ toxicity - Single exposure category 3	
Signal Word	DANGER	
Hazards statements (H)	H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. 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. P261 Avoid breathing dust / fume / gas / mist / vapors / spray. P264 Wash the areas of the body that have been in contact with the product after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 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. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P321 Specific treatment (see section 4 of the SDS and on this label). P332 + P313 If skin irritation occurs: Get medical advice/attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. 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=Significant; 4=Extreme)	
	Health 2 Fire 4 Reactivity 2 Special danger	

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Méthacrylate de méthyle MEHQ (comme inhibiteur stabilisant)	80-62-6 150-76-5	>=98% 8-30ppm

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, rinse the mouth with water. Do NOT induce vomiting. 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 sensitizer. Skin irritation. Irritation of the respiratory system. Nausea and vomiting. 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	Strong oxidizing agents, heat, sparks and open flame.
Suitable extinguishing media	Carbon dioxide, dry chemical powder and polymer foam.
Unsuitable extinguishing media	Do not use a jet of water.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10). Containers exposed to fire may explode. Vapors may rise to the source of ignition and flash back. Vapors may form flammable or explosive mixtures with air. In the absence of an inhibitor, this product can polymerize spontaneously, especially if exposed to heat, light or by the presence of hydrochloric acid. Violent reactions to the initiating agents of polymerization (azoisobutyronitrile, benzoyl peroxide, peroxide di-tert-butyl, propionaldehyde).
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. 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 vapors, mist or gas. Ensure a good ventilation of the premises. Cut off all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not let product enter drains. Discharge into the environment must be avoided. Use anti-spark tools and anti-explosion equipment.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Close all opened containers carefully and store vertically to avoid any flow. Protect from sunlight and light. Recommended storage temperature: 2 - 8 ° C.
Methods of handling	Bottle in the glass only. Keep away from sources of ignition - No smoking. Avoid contact with the skin, eyes and clothes. Avoid inhalation of vapor or mist. Take measures to prevent the build up of electrostatic charge.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	No.-CAS	Control parameters	Value	Basis
METHYL METHACRYLATE	80-62-6	TWA	50 ppm 205 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		VEMP	50 ppm 205 mg/m ³	Quebec. Occupational health and safety regulations, Appendix 1 Part 1 : Eligible exposure values for air contaminants
Remarks: Raising awareness				
		STEL	100 ppm 410 mg/m ³	Canada. Alberta, Occupational health and safety code (Table 2 : VLE)
		TWA	50 ppm	Canada. British Columbia OEL
		Substance with specific evidence of dermal sensitization		
		STEL	100 ppm	Canada, British Columbia OEL
		Substance with specific evidence of dermal sensitization		

Data source	Sigma-Aldrich.
Ventilation	Use 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	Use 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	Incolore.
Odour	Éther.
Odour threshold	Data not available
pH	Donnée non disponible..
Melting point / Freezing point	-48°C
Initial boiling point	100°C
Boiling range	Data not available
Flash point	10°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	2.1%
Upper flammable / Explosive limit	12.5%
Vapour pressure	37 hPa @ 20°C.
Vapour density	3.5 (Air = 1.0)-
Relative density	0.936g/cm ³
Solubility	Très peu soluble dans l'eau. Miscible avec le méthyle éthyle cétone (MEK), le tétrahydrofuran et les hydrocarbures aromatiques et chlorés.
Partition coefficient water/n-octanol	log Pow : 1.38-
Auto-ignition temperature	430°C
Decomposition temperature	Data not available
Viscosity	0.6 mPas à 20°C.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	In the absence of inhibitor, can polymerize easily. May react violently with incompatible substances. Flammable product, may ignite with source of ignition, if temperature above flash point.
Chemical stability	Stable under recommended storage conditions. If the product is not inhibited, it may polymerize, resulting in an increase in temperature and pressure, with possible rupture of the container. Check the amount of inhibitor often, add to the total liquid if necessary. Do not cover or mix with an oxygen-free gas, the inhibitor would then be neutralized.
Possibility of hazardous reactions	Stable under normal conditions. Polymerizes easily without inhibitors.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid excessive heat. This product may polymerize if exposed to light. Heat, flames and sparks.
Incompatible material	Strong oxidizing agents. Reducing agent. Acids. Bases, amines. Halogens. Peroxides. The agents polymerization initiators (azoisobutyronitrile, benzoyl peroxide, di-tert-butyl peroxide, propionaldehyde).
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

METHYL METHACRYLATE

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Severe irritation and burning may cause permanent eye damage.
- Skin	Severe irritation and tissue burn. May cause a skin allergy.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Narcotic effects, respiratory allergy, pain in chest, cough, dyspnea, headache, dizziness, drowsiness, hypotension, unconsciousness, respiratory depression and can lead to death.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Abdominal pain, liver damage, cramps, diarrhea, headache, dizziness, acidosis, sweating, salivation, tachycardia, seizures, nausea and vomiting.
Chronic exposure effects / symptoms	Central nervous system depression, Drowsiness, Irritability, Dizziness, ataxia, narcosis. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain. Burning sensation, dermatitis, conjunctivitis, narcotic effects, respiratory and skin allergies, pain in the chest, cough, dyspnoea, laryngitis, headache, dizziness, drowsiness, confusion, irritability, olfactory disorders, extremity pain, fatigue, weight loss and loss of appetite, nausea and vomiting.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 7872 mg/kg LD50 Dermal - Rabbit - > 5000 mg/kg
CL50 (specify species and route of entry)	CL50 inhalation - Rat 78000 mg/m ³

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	EC50 - Daphnia magna (Water flea) - 69 mg/L - 48 h LC50 - Lepomis macrochirus - 191 mg/L - 96 h LC50 - Pseudokirchneriella subcapitata (green algae) - 170 mg/L - 4 days LC50 - Pimephales promelas (fathead minnow) - 125.5-190.7 mg/L - 96 h - Statique LC50 - Leuciscus idus (Golden orfe) - 350 mg/L - 48 h - Static.
Persistence and degradability	Biodegradability Result: 95% - Easily biodegradable.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility due to its solubility in water.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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	1247
UN Proper shipping name	MÉTHACRYLATE DE MÉTHYLE MONOMÈRE STABILISÉ
Transport hazard class(es)	3 Flammable liquids
Packing group	II
Limited quantity index	1L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Flammable liquids category 2 Skin corrosion/irritation - Skin irritation category 2 Respiratory or skin sensitization - Skin sensitize 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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