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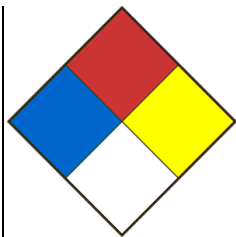
SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier alpha-METHYLSTYRENE (Inhibé p-tert-butylcatéchol)		Product Use Laboratory use	
Chemical formula $C_6H_5C(CH_3)=CH_2$		Product code MR-0252	Molar weight 118,18
Chemical name / Commercial name / Synonymous 2-phényl-2-propène; Prop-1-én-2-ylbenzène; 2-méthyl-2-phényléthène; a-méthyl-styrène; AMS; A-MÉTHYLE STYRÈNE; 1-méthyl-1-phényl-éthylène; 2-phénylpropylène; 2-phénylpropène; Benzène, isopropényl-; Styrene, a-méthyl-			
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 7/28/2020	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Flammable liquids category 3</p> <p>Serious eye damage/ Eye irritation category 2A</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Carcinogenicity category 2</p> <p>Respiratory or skin sensitization - Skin sensitize category 1</p>
Signal Word	<p>WARNING</p>
Hazards statements (H)	<p>H226 Flammable liquid and vapour.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H351 Suspected of causing cancer.</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>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>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</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> <p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p>
PICTOGRAMS	
Other dangers	<p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)</p>



Health 2
Fire 2
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
α-méthylstyrène	98-83-9	>=99
p-tert-butylcatéchol (comme inhibiteur)	98-29-3	0.0015

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	Heat, sparks and open flame. It can ignite if heated moderately in the presence of an ignition source. It can also ignite on contact with strong oxidizing materials. 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 / Personal 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	Recommended storage temperature 2 - 8 ° C. 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
Alpha-Methylstyrene	98-83-9	TWA	50ppm 242 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	100ppm 483mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	10 ppm	Canada. British Columbia OEL
Remarks	IARC '2B' applies to substances deemed possibly carcinogenic to humans.			
		STEV	100ppm 483mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWAEV	50 ppm 242mg/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	Aromatique.
Odour threshold	50ppm
pH	5-6 500g/L.
Melting point / Freezing point	-24°C
Initial boiling point	165-169°C
Boiling range	Data not available
Flash point	45-89°C
Evaporation rate	Data not available
Flammability	Yes
Lower flammable / Explosive limit	0.9%
Upper flammable / Explosive limit	6.6%
Vapour pressure	2.9 mbar @ 20 °C.
Vapour density	4.08 (Air=1)-
Relative density	0.909g/cm ³
Solubility	Pratiquement insoluble dans l'eau (0.1 g/l à 25 °C); Soluble dans benzène, ether. éthanol.
Partition coefficient water/n-octanol	log Pow: 3.48 à 25 °C-
Auto-ignition temperature	574°C
Decomposition temperature	Data not available
Viscosity	cSt

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. Peroxides. Organometallic compounds. Metallic salts.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon oxides.

SECTION 11 - TOXICOLOGICAL INFORMATION

ALPHA-METHYLSTYRENE (INHIBÉ P-TERT-BUTYLCATÉCHOL)

Routes of exposure	Inhalation.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation.
- Skin	May cause skin irritation. May cause sensitization by skin contact.
- Inhalation	Cough. Vertigo. Irritation of the throat. May cause respiratory tract irritation.
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	Cough, Shortness of breath, Headache, Nausea, Vomiting. 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 - 4900 mg/kg. LD50 Dermal - Rabbit - 14560 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 28 mg/L.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Static test: LC50 - Danio rerio (zebra fish) - 2.97 mg/L - 96h. Toxicity to daphnia and other aquatic invertebrates: Static test EC50 - Daphnia magna (Water flea): 1.645 mg/l - 48 h Toxicity to algae: Static test EC50 - Desmodesmus subspicatus (green algae) - 11.44 mg/l - 72h.
Persistence and degradability	Biodegradability aerobic - Duration of exposure 28 days - Result: 56 % - Not readily biodegradable.
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	2303
UN Proper shipping name	ISOPROPÉNYLBENZÈNE
Transport hazard class(es)	3 Flammable liquids
Packing group	III
Limited quantity index	5L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMIS CANADA	Flammable liquids category 3 Serious eye damage/ Eye irritation category 2A Specific target organ toxicity - Single exposure category 3 Carcinogenicity category 2 Respiratory or skin sensitization - Skin sensitize category 1
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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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