

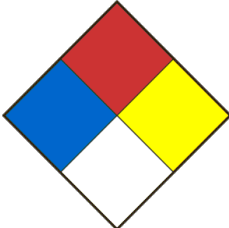


## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier MANDELIC ACID		Product Use Laboratory use	
Chemical formula C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>		Product code MR-0115	Molar weight 152,15
Chemical name / Commercial name / Synonyms ACIDE (+/-)-MANDÉLIQUE, ACIDE DL-MANDÉLIQUE, (+/-)-MANDELIC ACID, DL-MANDELIC ACID, MANDELIC ACID, AMYGDALIC ACID, AMYGDALINIC ACID, alpha-HYDROXYPHENYLACETIC ACID, alpha-HYDROXY-alpha-TOLUIC ACID, PARAMANDELIC ACID, PHENYLGLYCOLIC ACID, PHENYLHYDROXYACETIC ACID			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	418-660-8666 Lun-Ven 8h-16h	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 8/8/2024	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

### SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Not a hazardous substance according to WHMIS 2015
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<b>Health</b> 1 <b>Fire</b> 0 <b>Reactivity</b> 0 <b>Special danger</b>

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P/P)
Acide mandélique	611-72-13	<=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	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Eye damage. Skin irritation. Irritation of the respiratory system. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Suitable extinguishing media</b>	Water spray, carbon dioxide, dry chemical powder, alcohol or polymer foam.
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> )
<b>Specific hazards of the dangerous product</b>	May form concentrations combustible dust in the air. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid breathing dust. Use a respirator as needed. Pick up with a shovel or broom, taking care not to scatter dust. Clean and rinse with water. 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

<b>Conditions for safe storage</b>	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.
<b>Methods of handling</b>	Provide appropriate exhaust ventilation at places where dust or vapor is formed. Normal measures for preventive fire protection. Wear personal protective equipment when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control	Value	Basis
Mandelic acid	90-64-2	TLV, TWA, STEL	No data available	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TLV, TWA, STEL	No data available	Canada. British Columbia OEL
		TLV, TWA, STEL	No data available	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

<b>Ventilation</b>	Proper ventilation or hood.
<b>Respiratory</b>	If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.
<b>Gloves</b>	Handle with gloves. Suggested material: Nitrile. Butyle. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	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	Solid.
Appearance	Cristaux ou fine poudre blanche-
Odour	légère odeur aromatique..
Odour threshold	Donnée non disponible-
pH	Donnée non disponible.
Melting point / Freezing point	117-122°C
Initial boiling point	Data not available
Boiling range	255-340-
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	1.3g/ml à 20°C
Solubility	Soluble dans l'eau, l'alcool et l'éther.
Partition coefficient water/n-octanol	Log Pow: 0.5 - 0.52 @ 23 °C-
Auto-ignition temperature	Donnée non disponible-
Decomposition temperature	Donnée non disponible-
Viscosity	Donnée non disponible-

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Acid product, reacts strongly with strong bases. May react violently with incompatible substances. Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source.
Chemical stability	Stable under recommended storage conditions. Sensitive to light.
Possibility of hazardous reactions	Stable under normal conditions. May react violently with incompatible substances.
Conditions to avoid, including static discharge, shock or vibration	Avoid contact with incompatible materials. Light sensitive. Avoid excessive heat and humidity.
Incompatible materials	Strong reducing agents. Strong bases. Strong oxidizers.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and carbon dioxide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### MANDELIC ACID

Routes of exposure	Inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	May cause skin irritation.
- Inhalation	Irritation of the mucous membranes and the respiratory system.
Acute toxicity (Ingestion)	Nausea. Vomiting.
Chronic exposure effects / symptoms	Liver damage. Kidney damage.
LD50 (specify species and route of entry)	LD50 Oral - Data not available; LD50 Dermal - Data not available. LD50- Intraperitoneal - Rat - 4100 mg/kg.
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

## SECTION 12 - ECOLOGICAL INFORMATION

Available ecological information	No
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## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

## SECTION 15 - REGULATORY INFORMATION

WHMIS CANADA	Not a hazardous substance according to WHMIS 2015
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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: 8/8/2024