



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

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier VANILLIN		Product Use Laboratory use	
Chemical formula C ₈ H ₈ O ₃		Product code VR-0109	Molar weight 152,15
Chemical name / Commercial name / Synonymous Vanilline, 4-FORMYL-2-MÉTHOXYPHÉNOL, 4-HYDROXY-3-METHOXYBENZALDEHYDE, LIOXINE, M-MÉTHOXY-P-HYDROXYBENZALDÉHYDE, MÉTHYLPROCATÉCHUALDÉHYDE, P-VANILLINE, VANILLE, VANILLALDÉHYDE, ALDÉHYDE VANILLIQUE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 11/25/2022	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Serious eye damage/ Eye irritation category 2A Combustible dusts category 1
Signal Word	WARNING
Hazards statements (H)	H319 Causes serious eye irritation. May form combustible dust concentrations in air.
Precautionary statements (P)	P264 Wash the areas of the body that have been in contact with the product after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/attention. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.
PICTOGRAMS	
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 2 Fire 1 Reactivity 1 Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Vanilline	121-33-5	<=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. 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, eye and respiratory system irritation. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated. 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	No
Ignition conditions	Fine dust in sufficient concentration may be combustible, or explode if confined to a small space and subject to a source of ignition.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: Carbon monoxide (CO) Carbon dioxide (CO ₂)
Special fire and explosion hazards	Fine dust in the air can ignite. Dust can form an explosive mixture with air. 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. Ensure adequate ventilation. Use personal protective equipment. Pick up with a shovel or broom, taking care not to scatter dust. 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 dry, cool and well-ventilated place. Keep container tightly closed and store away from heat, moisture, and incompatible products. Protect from light.
Methods of handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Avoid contact with the skin, eyes and clothes.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Control	Value	Basis
VANILLINE	121-33-5	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

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	Safety shoes.
Clothing	Labcoat.
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	Solid.
Appearance	Poudre cristalline de couleur blanc cassé à jaune clair-
Odour	Doux, sucrée et vanillée.
Odour threshold	Data not available
pH	4.3 à 10 g/l à 20 °C (68 °F).
Melting point / Freezing point	81 - 83 °C (178 - 181 °F) - lit.-
Initial boiling point	170 °C / 338 °F @ 15 mmHg-
Boiling range	Data not available
Flash point	153 °C (307 °F) - coupelle fermée-
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	1 mmHg à 225 °F-
Vapour density	5.3 à 25 °C (77 °F)-
Relative density	1.056 gcm ³ à 20 °C (68 °F)-
Solubility	Légèrement soluble dans l'eau, soluble dans les solvants organiques, les huiles. Très soluble dans l'éthanol, l'éther diéthylique, l'acétone; soluble dans le benzène, la ligroïne..
Partition coefficient water/n-octanol	Log Pow : 1.17 - 1.33 @ 25 °C-
Auto-ignition temperature	>400 °C / >752 °F-
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances.
Chemical stability	Sensitive to light. Air sensitive.
Possibility of hazardous reactions	May form combustible dust concentrations in the air. May react violently with incompatible substances.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid dust formation. Incompatible products. Heat, flames and sparks. Exposure to the air. Exposure to light.
Incompatible material	Strong oxidizing agents, Strong bases, alkaline, Reducing agent. Aluminum.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Carbon monoxide (CO), Carbon dioxide (CO ₂)

SECTION 11 - TOXICOLOGICAL INFORMATION

VANILLIN

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation.
- Skin	To our knowledge, the product has not been fully studied.
- Inhalation	To our knowledge, the product has not been fully studied.
Acute toxicity (Ingestion)	To our knowledge, the product has not been fully studied.
Chronic exposure effects / symptoms	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - male - 880 mg/kg. LD50 Dermal - Rat - male and female - > 2,000 mg/kg Dermal LD50 - Rabbit - >5010 mg/kg
CL50 (specify species and route of entry)	LC50 - Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: Dynamic test CL50 - Pimephales promelas (fatty minnow head) - 57 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: Static test CE50 - Daphnia magna (Water flea) - 36.6 mg/l - 48 hours Toxicity to algae: Static test CE50r - Pseudokirchneriella subcapitata (algae green) - 120 mg/l - 72 h Toxicity to bacteria: Cl50 - microorganisms - 163 mg/l - 40 h
Persistence and degradability	Persistence is unlikely.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	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	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Serious eye damage/ Eye irritation category 2A Combustible dusts 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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