



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	CATÉCHOL
Other identification (Chemical name, Commercial name, Synonymous)	1,2-benzenediol; 1,2-dihydroxybenzene; 1,3-dihydroxybenzene; 2-hydroxyphenol; catechol dipotassium salt; catechol sodium salt; pyrocatechol.
Product code	CR-0125
Chemical formula	$C_6H_6O_2$
Molar weight	110.11
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2025-07-16

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
- Serious eye damage/eye irritation - Eye irritation - category 1
- Acute toxicity - Dermal - category 3
- Acute toxicity - Oral - category 3
- Germ cell mutagenicity - category 2
- Carcinogenicity - category 1B
- Respiratory or skin sensitization - Skin sensitize - category 1
- Combustible dusts - category 1

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Causes skin irritation
- Causes serious eye damage
- Toxic in contact with skin
- Toxic if swallowed
- Suspected of causing genetic defects
- May cause cancer
- May cause an allergic skin reaction
- May form combustible dust concentrations in air

Precautionary statements (P)

- Wash thoroughly after handling.
- IF ON SKIN: Wash with plenty of water
- Specific treatment (see section 4 on the SDS on this label).
- If skin irritation occurs: Get medical attention.
- Take off contaminated clothing and wash before re-use.
- Wear protective gloves (Viton®, nitrile, butyl), protective clothing and eye and face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or a physician.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Take off immediately all contaminated clothing and wash it before reuse.
- Store locked up.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Rinse mouth.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- IF exposed or if you feel unwell: Call a POISON CENTER or a physician.
- Avoid breathing mists, gases, vapors and other fumes, or the product itself.
- Contaminated work clothing should not be allowed out of the workplace.
- If skin irritation or a rash occurs: Get medical attention.
- Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

Health 3
Fire 1
Reactivity 1
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
Catechol	120-80-9	<=100%

SECTION 04 - FIRST AID MEASURE

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 contaminated 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. Do NOT induce vomiting. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Cough. Breathing difficulties. Headaches. Nausea and vomiting. Depression of the central nervous system. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician. In case of poisoning, the following can be administered as an antidote: Activated charcoal may be administered if victims are conscious and alert. Use 15 to 30 g for children, 50 to 100 g for adults, with 125 to 250 mL (1/2 to 1 cup) of water. (10g of coal per 1g of toxic in general). Milk. Beaten egg whites.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Carbon dioxide.
Specific hazards of the dangerous product	May form combustible dust concentrations in the 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

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Cut off all sources of ignition. Avoid dust formation. Avoid breathing dust.
Methods and materials for containment and cleaning up	Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container for disposal of hazardous materials. When handling, wear suitable safety equipment. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry, and well-ventilated place. Keep container tightly closed and store away from heat, water, moisture, and incompatible products (ref. section 10).
Methods of handling	Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use. Keep away from heat and sources of ignition.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Components	CAS-No.	Control parameters	Value	Basis
Catechol	120-80-9	TWA	5ppm 23mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Substance may be readily absorbed through intact skin			
		TWA	5ppm	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Skin (percutaneous) Carcinogenic effect detected in animals. Results of studies relating to the carcinogenicity of these substances in animals are not necessarily applicable to humans.			
		TWA	5ppm	Canada. Ontario Reg.833
		TWA	5ppm	Canada. British Columbia OEL
		TWA	5ppm	USA. ACGIH Threshold Limit Values (TLV)

Data origin Sigma-Aldrich (Millipore Sigma)

Respiratory If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

Gloves Handle with protective gloves. Suggested material: Nitrile. Butyl. Viton® (Fluoroelastomer). 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.

Eyes Safety goggles with safety shutters.

Shoes Use safety shoes.

Clothes 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 Use fan. 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.
Color	Colorless to white to brown.
Odour	Phenolic odor.
Odour threshold	detection: 8.0 mg/L
Melting point and freezing point	104 - 106 °C.
Boiling point	245.5 °C 473.9 °F at 1,013 hPa.
Flammability	Combustible dust.
Lower flammable / Explosive limit	Data not applicable.
Upper flammable / Explosive limit	Data not applicable.
Flash point	127 °C (261 °F) - closed cup.
Auto-ignition temperature	510 °C.
Decomposition temperature	Data not available.
pH	Data not available.
Kinematic viscosity	Data not applicable.
Solubility	Soluble in water.greater than or equal to 100 mg/mL at 70.7°F
Partition coefficient water/n-octanol	Data not available.
Vapour pressure	5 mmHg at 219°F ; 10 mmHg at 244.9°F
Relative density	1.344 at 68 °F.
Vapour density	3.79(Air = 1).
Particle characteristics	Flakes.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	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. May react violently with incompatible substances.
Chemical stability	Light sensitive. Air sensitive. Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances. May form combustible dust concentrations in the air.
Conditions to avoid	Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Avoid dust formation.
Incompatible materials	Acids. Acid anhydrides. Bases. Acid chlorides. Oxydants.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO2).

SECTION 11 - TOXICOLOGICAL INFORMATION

CATÉCHOL

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation. May cause: Causes serious eye damage.
- Skin	Irritation. Dermatitis. Convulsions. Some sources report having had cases of: Depression of the central nervous system.
- Inhalation	Cough. Convulsions. Breathing difficulties. Sore throat. Burning sensation.
Acute toxicity (Ingestion)	Abdominal pain. Nausea and vomiting. Diarrhea. Convulsions. Breathing difficulties.
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 Dermal - Rabbit - 800 mg/kg. LD50 Oral - Rat - 260 mg/kg. LD50 Dermal - Rat - 600 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4 h - > 1,06 mg/l.

SECTION 12 - ECOLOGICAL INFORMATION

CATÉCHOL

Ecotoxicity	Toxicity to fish: LC50 - Pimephales promelas (Bighead Minnow) - 3.5 mg/L, 96h. LC50 - Oncorhynchus mykiss (rainbow trout) - 8.9 mg/L, 96h. Toxicity to microorganisms: EC50 - 174 mg/L 210 min. 29.7 mg/L 30 min. Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Water flea) - EC50 - 1.66 mg/L, 48h.
Persistence and degradability	Persistence is unlikely based on information provided.
Bioaccumulative potential	Data not available.
Mobility in soil	Probable mobility in the environment due to its solubility in water.
Other adverse effects	Data not available.

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	2811
UN Proper shipping name	SOLIDE ORGANIQUE TOXIQUE, N.S.A. (Catéchol)
Transport hazard class(es)	Matières toxiques 6.1
Packing group	III
Limited quantity index	5 kg
ERAP Index	-
Special precautions	16

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
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SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

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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