



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	2-ETHYLANILINE
Other identification (Chemical name, Commercial name, Synonymous)	2-ETHYLANILINE; o-Ethylaniline; Benzenamine 2-ethyl-; 2-Ethylbenzenamine; o-Aminoethylbenzene
Product code	EP-0118
Chemical formula	C ₈ H ₁₁ N
Molar weight	121.18
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	2025-06-23

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Serious eye damage/eye irritation - Eye irritation - category 2
- Acute toxicity - Dermal - category 3
- Acute toxicity - Oral - category 4

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Causes serious eye irritation
- Toxic in contact with skin
- Harmful if swallowed

Precautionary statements (P)

- Wash thoroughly after handling.
- Wear protective gloves (butyl, Viton®, laminated material (PE/EVOH), 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.
- If eye irritation persists get medical attention.
- IF ON SKIN: Wash with plenty of water
- Call a POISON CENTER or a doctor or if you feel unwell.
- Store locked up.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Do not eat, drink or smoke when using this product.
- IF SWALLOWED: Call a POISON CENTER or a physician if you feel unwell.
- Rinse mouth.

Other dangers

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

Health 2
Fire 2
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
2-Ethylaniline	578-54-1	<=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. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Methemoglobinemia (methemoglobin level too high in the blood). Cyanosis (blue to black coloring of the skin and nails). 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	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Do not use a jet of water.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon oxides. Nitrogen oxides (NO _x).
Specific hazards of the dangerous product	Highly concentrated vapors in the air can ignite or even explode if exposed to an intense ignition source. Keep the product and empty containers away from heat and ignition sources. 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. Cut off all sources of ignition. 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.
Methods and materials for containment and cleaning up	Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. 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). Protect from light and sunlight. Keep away from heat and sources of ignition. Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks).
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.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
2-Ethylaniline	578-54-1	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

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: Butyl. Viton® (Fluoroelastomer). Laminated material (PE/EVOH) 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	Liquid
Color	Clear dark red
Odour	No data available
Odour threshold	No data available
Melting point and freezing point	-44 °C / -47 °F
Boiling point	210 °C / 410 °F
Flammability	Yes
Lower flammable / Explosive limit	No data available
Upper flammable / Explosive limit	No data available
Flash point	93 °C (199 °F) - closed cup
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable
Kinematic viscosity	No data available
Solubility	Insol in water, miscible with ethanol and ether
Partition coefficient water/n-octanol	No data available
Vapour pressure	No data available
Relative density	0.983 g/mL at 25 °C
Vapour density	4.85 (Air=1)
Particle characteristics	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. May form explosive mixtures with air on intense heating.
Chemical stability	Sensitive to heat. Light sensitive. Stable under recommended storage conditions.
Possibility of hazardous reactions	May react violently with incompatible substances. Vapours can form explosive mixtures with air when heated.
Conditions to avoid	Heat, flames and sparks. Avoid the build-up of static electricity. Avoid excessive heat. Avoid moisture. Avoid contact with incompatible materials and extreme temperatures. Exposure to light.
Incompatible materials	Strong acids. Peroxides. Phenols. Epoxides. Acid halides. Isocyanates. Violent reaction with: Oxydants. Strong reducers. Acid anhydrides. Halogenated organics.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx).

SECTION 11 - TOXICOLOGICAL INFORMATION

2-ETHYLANILINE

Routes of exposure	Ingestion, inhalation and skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Tearing May cause severe eye irritation.
- Skin	May cause: Severe burns and tissue ulcerations.
- Inhalation	May irritate the respiratory system. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
Acute toxicity (Ingestion)	Drowsiness. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
Chronic exposure effects / symptoms	Methemoglobinemia (methemoglobin level too high in the blood). Cyanosis (blue to black coloring of the skin and nails). To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 1260 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 Inhalation - Data not available.

SECTION 12 - ECOLOGICAL INFORMATION

2-ETHYLANILINE

Ecotoxicity	Toxicity to fish: Chronic toxicity - LC50 - <i>Poecilia reticulata</i> (guppy) - 74.7 mg/l - 14 d. Toxicity to daphnia and other aquatic invertebrates: LC50 - <i>Daphnia magna</i> (Water flea) - 8.05 mg/l - 48 h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
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	2273
UN Proper shipping name	2-ÉTHYLANILINE
Transport hazard class(es)	Matières toxiques 6.1
Packing group	III
Limited quantity index	5 L
ERAP Index	-
Special precautions	-

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	- Serious eye damage/eye irritation - Eye irritation - category 2 - Acute toxicity - Dermal - category 3 - Acute toxicity - Oral - category 4
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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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