

Toluene

Section 1. Identification

Common name : Toluene

Synonym :

Material uses : Solvent

CAS : 108-88-3

Supplier / Manufacturer:

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In case of emergency:

CANUTEC : (613) 996-6666

Section 2. Hazards identifications

Classification :



Flammable liquid, Category 2

Aspiration hazard, Category 1

Skin irritation, Category 2

Specific target organ toxicity - Repeated exposure, Category 2

Specific target organ toxicity - Single exposure (Narcotic effects), Category 3

Reproductive toxicity, Category 2

Acute toxicity (oral), Category 4

Acute toxicity (inhalation), Category 4

Signal word : Danger

Hazard statements:

H225 : Highly flammable liquid and vapour.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H332 : Harmful if inhaled.

H336 : May cause drowsiness or dizziness.
H361 : Suspected of damaging fertility or the unborn child.
H373 : May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P201 : Obtain special instructions before use.
P202 : Do not handle until all safety precautions have been read and understood.
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 : Keep container tightly closed.
P240 : Ground/bond container and receiving equipment.
P241 : Use explosion-proof electrical/ventilating/light equipment.
P242 : Use only non-sparking tools.
P243 : Take precautionary measures against static discharge.
P260 : Do not breathe dust/fumes/gas/mist/vapours/spray.
P264 : Wash exposed and/or contaminated area thoroughly after handling.
P270 : Do not eat, drink or smoke when using this product.
P271 : Use only outdoors or in a well-ventilated area.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P302+P352 : IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 : If exposed: Call a POISON CENTER or doctor/physician.
P312 : Call a POISON CENTER or doctor if you feel unwell.
P314 : Get medical advice/attention if you feel unwell.
P321 : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
P330 : Rinse mouth.
P331 : Do NOT induce vomiting.
P370+P378 : In case of fire: Use dry powder, foam and sprayed water to extinguish.
P403+P233 : Store in a well ventilated place. Keep container tightly closed.
P403+P235 : Store in a well ventilated place. Keep cool.
P405 : Store locked up.
P501 : Dispose of contents / container by a local waste disposal company according to regional regulations.

Section 3. Composition and information on ingredients

Name	CAS	Concentration %
Toluene	108-88-3	100

Section 4. First aid measures

Description of first aid if required:

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact:

Rinse eyes thoroughly with water for at least 15 minutes.

Skin contact:

Wash exposed and/or contaminated area thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water and soap.

Inhalation:

Bring the conscious victim to fresh air. Do not breathe dust/fumes/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Ingestion:

Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or a doctor.

Indication of immediate medical attention and special treatment needed, if necessary:

Do not give anything by mouth to an unconscious victim. Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or a doctor.

Section 5. Fire fighting measures**Flammability of the product :**

Flammable

Flash point :

7°C / 44.6°F

Auto-ignition temperature :

480°C / 896°F

Products of combustion :

Carbon oxides

Special protective actions for fire-fighters :

Wear self-contained breathing apparatus and appropriate protective clothing.

Suitable extinguishing media :

Water spray, Carbon dioxide, Foam, Dry Chemical, Do not use water jet.

Lower limit of explosivity :

1.0

Upper limit of explosivity :

7.0

Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

For non emergency personnel: Evacuate the area.

For emergency personnel: Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

Environmental precautions:

Do not let product enter drains

Methods and material for containment and cleaning up:

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and storage**Precautions in Handling:**

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

Precautions in Storage:

Keep container tightly closed in a cool, dry and well-ventilated place.

Section 8. Exposure Controls, Personal Protections**Control parameters:**

Component	CAS	Value	Control parameters	Basis
Toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	50 ppm	CNESST

Engineering controls:

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Personal protective equipment:

Eyes: Wear safety glasses.

Skin/body: Wear a lab coat or any other appropriate protective clothing.

Respiratory: If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

Hands: Wear chemical resistant protective gloves.

Section 9. Physical and chemical properties

Physical state: Liquid

Color: Clear

Odour: Aromatic

Melting point/Freezing point: -93°C / -135.4°F

Boiling point: 110°C / 230°F

Appearance: Clear

Lower explosion limit: 1.0

Upper explosion limit: 7.0

Flash point: 7°C / 44.6°F

Auto-ignition temperature: 480°C / 896°F

pH: Data not available

Solubility: Data not available

Vapour pressure: 22.0 mmhg

Density: 0.866

Relative vapour density: Data not available

Evaporation rate: 4.5

VOC: 866 gr/l

Section 10. Stability and reactivity

Chemical reactivity: Stable under recommended storage conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: May ignite if heated strongly.

Reactivity conditions: Heat, flames and sparks.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents, acids.

Hazardous decomposition products: Carbon oxides

Products of combustion: Carbon oxides.

Section 11. Toxicological information

Acute toxicity :

Component	CAS	Value
Toluene	108-88-3	DL ₅₀ Oral : Rat = 636 mg/kg DL ₅₀ Cutaneous : Rat = 12000 mg/kg CL ₅₀ Inhalation : Mouse - = 400 ppm 24h

Skin corrosion/irritation :

Causes skin irritation.

Serious eye damage/irritation :

Not applicable

Respiratory or skin sensitisation :

Not applicable

Gem cell mutagenicity :

Not applicable

Carcinogenicity :

Not applicable

Reproductive toxicity :

Suspected of damaging fertility or the unborn child.

STOT- Single exposure :

May cause drowsiness or dizziness.

STOT- repeated exposure :

May cause damage to organs through prolonged or repeated exposure cause the hazard.

Aspiration hazard :

May be fatal if swallowed and enters airways.

Information on likely route of exposure :

Skin, eyes, inhalation and ingestion

Section 12. Ecological information

Ecological data for aquatic environments :

None

Persistence and degradability :

No data available

Bioaccumulative potential :

No data available

Mobility in soil :

No data available

Other adverse effects :


No data available


Section 13. Disposal considerations


Waste disposal :


Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

Section 14. Transportation information

TDG		
UN # : UN 1294	Proper shipping name : Flammable liquids, N.O.S. (Toluene)	
Class : 3	Packing group : II	

DOT		
UN # : UN 1294	Proper shipping name : Flammable liquids, N.O.S. (Toluene)	
Class : 3	Packing group : II	

IMDG			
UN # : UN 1294	Proper shipping name : Flammable liquids, N.O.S. (Toluene)		EMS-No :
Class : 3	Packing group : II		

IATA		
UN # : UN 1294	Proper shipping name : Flammable liquids, N.O.S. (Toluene)	
Class : 3	Packing group : II	

Section 15. Regulatory information

Section 16. Additional information

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1.00

Elaborated by :

Solutions Chemco

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Références :

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*
- *Canadian Transport of Dangerous Goods.*
- *The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) <http://www.hc-sc.gc.ca/a>*