

Date of Revision: March 15, 2022

Section 1 - Chemical Product and Company Identification

Product Name Toluene

Synonyms benzyl hydride; methylbenzene; phenylmethane; toluol.

Product Use Solvent, petroleum diluent

Restriction on UseNone identified **Manufacturer/Supplier**CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

General Assistance 1 (877) 269-3419

Emergency Telephone 613-966-6666 (CANUTEC 24 Hour Phone Number)

Date of Preparation of SDS April 1, 2017

Section 2 - Hazard Identification

Signal Word GHS Pictogram(s)

Danger



Target Organs Narcotic Effects

Hazard Statement:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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.

H401 Toxic to aquatic life

Precautionary Statement

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 surface, sparks, open flames and other ignition sources.

No smoking

P233 Keep container tightly closed.

P240 Gound/bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating, lighting and all material-handling

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.



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Response

P321 Specific Treatment: See this Label

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.

P303 + P361 +P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water

/ shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P331 DO NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

Storage

P403 + P233 +P235 Store in well-ventilated place. Keep container tightly closed. Keep Cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

GHS Classification Flammable liquids (Category 2)

Skin corrosion/irritation (Category 2)
Toxic to reproduction (Category 2)

Specific target organ toxicity - single exposure (Category 3, narcotic effects)
Specific target organ toxicity - repeated exposure (Category 2, Central Nervous

System (CNS))

Aspiration hazard (Category 1)

Hazardous to the aquatic environment, acute hazard (Category 2)

HMIS Classification

Health Hazard 3
Chronic Health Hazard *
Flammability 1
Physical Hazards 2

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT Hazardous Ingredient, Synonyms PERCENT CAS NUMBER

Toluene benzyl hydride; methylbenzene; phenylmethane; 100% 108-88-3

toluol.

* = Various ** = Mixture *** = Proprietary

Chemical Formula C₇H₈

Section 4 - First Aid Measures

Inhalation Move victim to fresh air and keep at rest in a position comfortable for breathing.



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appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as collar, tie, belt or waistband.

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and

lower lids. Check for and remove contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Skin Contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion Get medical attention immediately. Call a poison control centre or physician.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as collar, tie, belt or waistband.

Most Important Symptoms/Effects

Acute No data available.
Delayed No data available.

Note to Physician Treat symptomatically.

Section 5 – Fire-Fighting Measures

Flash Point (°C) 4°C
Flash Point Method PMCC
Auto Ignition Temperature 480°C

Conditions of Flammability Flammable in the presence of a source of ignition when the temperature is above

the flash point. Keep away from heat/sparks/open flame/ hot surface. No

smoking.

Extinguishing MediaUse water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguising Media Water streams.

Unusual Fire/

Explosion Hazard No data available.

Hazardous Combustion

Products Carbon oxides

Special Protective Equipment and

Precautions for Firefighters Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.



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Section 6 – Accidental Release Measures

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe

areas. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain free liquid if possible. Pick up by covering with an activated carbon

absorbent or other suitable inert absorbent material (e.g. sand, sawdust, generalpurpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in

accordance with local regulations.

Section 7 - Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build-up of

electrostatic charge.

Conditions for safe storage

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

Incompatible Conditions

Heat, flames and sparks.

Incompatible Materials Strong oxidizing agents. Reducing agents. Acids. Alkalis.

Section 8 - Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits

Toluene Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)

TWA: 50ppm

Personal protective equipment

Eye/face protection Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals.

Skin protection Wear chemical resistant gloves, impermeable protective clothing and safety

shoes.

Respiratory protection

General hygiene

Use NIOSH approved respirators and components.

Considerations Handle in accordance with good industrial hygiene and safety.

shower, eye wash, and fire extinguisher should be present.

Section 9 – Physical and Chemical Properties

Physical StateLiquidWater SolubilityInsolubleAppearance & OdourClear, colourless aromaticBoiling PointNot applicable.



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odous.

Vapour Pressure1 kPa @ 20.0°CBoiling Range136 – 145°COdour ThresholdNot available.Melting Point-48°C

Evaporation Rate13.5Freezing Point-48°CVapour Density3.7Lower Explosive Limit (LEL)1.0 %Specific Gravity0.87Upper Explosive Limit7.1 %

(UEL)

pH Not available. Partition coefficient (n- 3.15

octonal/water)

Flammability (Solid, Gas) Not applicable.

Decomposition Not available. **Viscosity** Not available.

Temperature

Section 10 - Stability and Reactivity

Reactivity Heating may cause fire.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid Heat, flames and sparks.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon

oxides. Other decomposition products - No data available

Section 11- Toxicological Information

Information on Likely Routes of Exposure

Inhalation:

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)

Skin contact

Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin. **Eye contact**

Causes eye irritation.

Eye contact

May irritate and cause redness and pain..

Ingestion

Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea. May cause irritation to the mouth and throat.

Acute and Chronic Toxicity

No data available

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation gas LD50 Oral	Rat Rat	>20mg/L 5580mg/kg	4 Hr -

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LD50 Dermal Rabbit 12223mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

No data available

Mutagenicity Not assigned.

Carcinogenicity Suspected of causing cancer.

IARC:

Ethylbenzene 2B Possibly carcinogenic to humans

Xylene (o, m, p isomers) 3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity Not assigned.

Teratogenicity No known significant effects or critical hazards. **Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Not assigned.

Aspiration hazard

May be fatal if swallowed and enters airways.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

Short Term Exposure

Potential immediate Health Effects No data available.

Potential Delayed Health Effects No data available.

Long Term Exposure

Potential immediate Health Effects

Potential Delayed Health Effects

No data available.

No data available.

No data available.

Synergistic effects No data available

Section 12 – Ecological Information

Toxicity

Product / Ingredient NameResultSpeciesExposureTolueneAcute LC50 24mg/LFish – Onchohynchus mykiss96 HrAcute EC50 84mg/LDaphnia – Daphnia magna24 HrAcute LC50 13mg/LFish – Lepomis macrochirus96 Hr

Persistence and degradability

Biodegradability

Bioaccumulative potential

Mobility in soil

Other adverse effects

No data available
No data available
No data available



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Section 13 – Disposal Considerations

Product This combustible material may be burned in a chemical incinerator equipped with

an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service

to dispose of this material.

Contaminated packaging Dispose of as unused product.

Section 14 – Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

Shipping Name UN1294, TOLUENE, 3. PG II

Class 3

UN Number UN1294

Packaging Group:

Label



Not a marine pollutant.

Environmental hazards

Transportation in bulk,

if applicableNo data availableSpecial PrecautionsNo data available

Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

TSCA Inventory 12(b) All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

Section 16 – Other Information

REVISION SUMMARY:

Date of Preparation April 1, 2017
Date of Revision March 15, 2022

SDS Prepared by: CFR Lab Manager



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