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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: 10003
Product Trade Name: Toluene
Product Class / Intended End Use: Solvent
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Flammable Liquids	2
Skin Irritation	2
Reproductive Toxicity	2
Specific Target Organ Toxicity – Single Exposure (CNS)	3
Specific Target Organ Toxicity – Repeated Exposure	2
Aspiration Toxicity	1
Signal word:	DANGER!

Hazard Statements:

- Highly flammable liquid and vapour
- Causes skin irritation
- Suspected of damaging the unborn child
- May cause drowsiness or dizziness
- May cause damage to the brain and central nervous system through prolonged or repeated exposure via inhalation
- May be fatal if swallowed and enters airways

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Precautionary Statements:

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Keep away from heat, open flames and hot surfaces. No smoking
- Keep container tightly closed
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Avoid breathing mist or vapours
- Wash hands thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/clothing and eye/face protection

Other Hazards:

- Burning produces noxious and toxic fumes
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
- May cause eye irritation
- May cause respiratory tract irritation

Hazard Pictograms:



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
Methylbenzene	108-88-3	100
<i>N/A = Not Available N/E = Not Established</i>		

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin Contact:** Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- Eye Contact:** For eye contact, flush with running water for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Call a poison centre or doctor/physician if you feel unwell.

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Most Important Symptoms and Effects (both acute and delayed):

- Causes skin irritation. Redness, swelling, itching and dryness
- May cause respiratory irritation
- May cause coughing and breathing difficulties
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
- Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal
- May cause headache, nausea, dizziness and other symptoms of central nervous system depression
- May cause eye irritation. Symptoms may include stinging and tearing
- Prolonged exposure can cause central nervous system effects
- Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Suspected of causing cancer

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Aspiration hazard. This product is a CNS depressant.

Notes to Physician:

- Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use water fog or fine spray, alcohol resistant foams, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards Arising from the Substance or Mixture:	Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Empty containers may contain hazardous residues.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide and other identified organic compounds.
Special Protective Equipment and Precautions for Fire Fighters:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.
Environmental Precautions:	Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Methods and Materials for Containment and Clean Up:	Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

Conditions for Safe Storage:

Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatibles:

Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Methylbenzene	20	N/A	200	300
<i>N/A = Not Available N/E = Not Established</i>				

Control Parameters:

No TLV data available on product.

Appropriate Engineering Controls:

Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory Protection:

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Eye/Face Protection:

Wear eye/face protection. Wear as appropriate. Tightly fitting safety goggles.

Skin Protection:

Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Other Considerations:

Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

Eye wash station and safety shower should be located near the work station.

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SECTION 9: PHYSICAL PROPERTIES

Physical State/Appearance:	Clear Colourless Liquid
Odour:	Hydrocarbon Odour
Odour Threshold:	Data not Available
pH:	Not Applicable
Melting/Freezing Point	-95°C / 231.08°F
Boiling Point:	110.6°C / 231.1°F
Flash Point (Setaflash Closed Cup):	4.44-6°C / 40-42.8°F
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Flammability (solid, gas):	Not Applicable
Explosive Limit:	Data not Available
Vapour Pressure:	3.22 mm Hg
Vapour Density:	Data not Available
% Volatiles by Weight:	100
Specific Gravity:	0.871
Solubility in Water:	No
Partition Coefficient:	Data not Available
Auto Ignition Temperature:	464-500 °C / 867.2-932 °F
Decomposition Temperature:	Data not Available
Viscosity:	<20 cps

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatibles:	Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.
Hazardous Decomposition Products:	None known. Refer to hazardous combustion products in Section 5.

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SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Methylbenzene	5580 12,125	Rat Rabbit	Oral Dermal	7585	Rat	Inhalation, 4h

Acute Toxicity:	See above.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, Skin & Eye, Ingestion, Skin Absorption.
Symptoms/Injuries Eye Exposure:	May cause eye irritation. Symptoms may include stinging, tearing.
Symptoms/Injuries Skin Exposure:	Causes skin irritation.
Symptoms/Injuries Inhalation:	May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
Symptoms/Injuries ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Potential Chronic Health Effects:	Prolonged exposure can cause central nervous system effects.
Reproductive Effects & Teratogenicity:	Suspected of damaging the unborn child. Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.
Specific Target Organ Effects:	Specific Target Organ Toxicity, Single Exposure - Category 3 May cause drowsiness or dizziness. Specific Target Organ Toxicity, Repeated Exposure – Category 2 May cause damage to the brain and central nervous system through prolonged or repeated exposure via inhalation.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No test data on mixture.
VOC (w/w%)	871
Persistence and Degradability:	Not readily biodegradable.
Bio-accumulative Potential:	No information available.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal:	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
Methods of Disposal:	Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS

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SECTION 14: TRANSPORTATION INFORMATION

UN Number:	1294
UN Proper Shipping Name:	Toluene
Transport Hazard Class:	3
Packing Group:	II
Environmental Hazards:	Toxic to aquatic life with long lasting effects.
Special Precautions for User:	Keep away from heat, sparks and open flame. No smoking.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

Canada: All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

USA:

TSCA: All components of this material are on the US TSCA inventory or are exempt.

OSHA: This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).

CERCLA: Reportable quantities (RQ) (40 CFR 117.302). Data not available.

SARA TITLE 111: Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available

SARA TITLE 111: Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

SECTION 16: OTHER INFORMATION

HMIS:	Health 2	Flammability 3	Reactivity 0	
NFPA:	Health 2	Flammability 3	Reactive Instability 0	Special Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET