

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification				
Product Name:	Toluene (Toluol)	Version: 4 Effective Date: June 27, 2014		
Supplier/	Chemfax Products Ltd.			
Manufacturer:	11444 – 42 Street SE			
	Calgary, AB T2C 5C4			
	Tel: 403-287-2055			
Material Uses	Industrial solvent			
24 Hour Emergency	Canutec (613) 996-6666			

WHMIS





This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

HMIS Ratings for this product are: Health 2, Flammability 3, Reactivity 0

Section 2. Composition and Information on Ingredients			
Name	CAS#	% by weight	
Toluene	108-88-3	90 - 100	
See Section 8 for information on perm	issible exposure limits and threshold limit valu	es	

Section 3. Hazards Identification			
Physical State and Appearance	Clear, colourless liquid with hydrocarbon odour		
Hazard Summary	Irritant		
Routes of Exposure	Skin – contact and absorption, eye contact, inhalation, ingestion		
Potential Acute Health Effects			
	Skin: Irritant. Prolonged and repeated contact will cause redness,		
	burning, drying and cracking of the skin and/or burns. This		
	material can pass into the body through the skin – but is unlikely		
	to cause harmful effects if material is being handled safely.		
	Eyes: Irritant. Symptoms include stinging, tearing, redness and		

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	swelling of the eyes	
	Inhalation: Breathing of vapours or mists is unlikely to cause	
	harmful effects at levels below recommended exposure limits.	
	Ingestion: If large amounts are swallowed, product may be	
	aspired into the lungs causing inflammation and other lung injury	
Medical Conditions	Pre-existing conditions such as: asthma (or upper respiratory	
Aggravated by Exposure	tract conditions), skin – eczema, kidney, central nervous system,	
	auditory system. People with pre-existing heart conditions may	
	experience arrhythmias (irregular heartbeat) if exposed to high	
	concentrations.	
See Toxicological Information – Section 11		
Additional Hazard	Over exposure may lead to loss of hearing, mild reversible	
Identification Remarks	liver and kidney damage, disturbances in gait, memory loss and	
	personality changes.	

Section 4. First Aid Mea	sures
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Notes to Physician	Over exposure may lead to cardiac arrhythmias. Potential for aspiration of material if ingested.
Additional First Aid Remarks	None

Section 5. Fire Fighting Measures		
Flammability of	Flammable liquid	
the Product		
Flash Point	4.44 °C	
Explosive Limits	LEL: 1.27 % UEL: 7 %	
Auto Ignition	480 °C	
Temperature		
Static Discharge	Yes	
Suitable Extinguishing	Foam, carbon dioxide, dry chemical	
Media		
Hazardous	Carbon monoxide, carbon dioxide, hydrocarbons	
Combustion Products		

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Precautions for	Fire fighters should wear self contained breathing apparatus and full
Fire Fighting	protective clothing. Use water spray to cool containers and structures
	exposed to fire. Vapours may travel along the ground and may be
	ignited by pilot lights, flames, sparks, heaters, electric motors, static
	discharge or any other source of ignition.

Section 6. Accidental Release Measures			
Personal Precautions	Gloves (nitrile), coveralls (Nomex), chemical resistant footwear, safety glasses		
Environmental	Do not allow product to enter surface drains and watercourses.		
Precautions			
Methods for	Dike spill. Remove all sources of ignition, sparks and naked flames.		
Clean Up	Do not allow material to enter sumps, basements or low lying areas –		
	fumes and vapours will accumulate. Soak up spilt material on		
	absorbent, or pump up large volumes with non sparking equipment.		
	Place waste material in a suitable container for disposal. Wash area		
	with water and detergent to remove residues.		

Section 7. Handli	ing and Storage
Handling	Handle with care – Flammable liquid. Ground all drums when in use.
	Empty containers may contain flammable residues. Do not cut, weld
	or puncture empty containers.
Storage	Store in a cool dry place. Remove all sources of ignition, sparks and
	naked flames. Keep containers closed when not in use.

Section 8. Exposure Controls and Personal Protection				
Exposure Guidelines	TWA: 8 Hr	STEL: 15 min	Ceiling	
Toluene	50 ppm CAD AB OEL			
Exposure Controls	Local exhaust ventilation			
Personal Protection				
Respiratory	If exposure limits are exceeded an air purifying respirator fitted with organic vapour cartridges must be worn			
Skin	Gloves (nitrile), coveralls (Nomex), chemical resistant footwear			
Eyes	Safety glasses			
Other	None			

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Section 9. Physical and Chemical Properties		
Physical State and Appearance	Clear, colourless liquid with hydrocarbon odour	
Odour Threshold	No data	
pH	Not applicable	
Boiling Point	110.6 °C	
Melting Point / Freezing point	-94.9 ℃	
Evaporation Rate	2.00 (N-Butyl acetate)	
Vapour Density	3.1 (air =1)	
Vapour Pressure	3.78 kPa @ 25 °C	
Specific Gravity	0.87	
Solubility in Water	Negligible in water	
% Volatile	100 %	
Other Data	None	

Section 10. Stability and Reactivity			
Chemical Stability	Stable		
Hazardous Polymerisation	Will not occur		
Conditions to Avoid	Extreme, heat, naked flames, sources of ignition		
Materials to Avoid	Strong acids. Strong oxidising agents		
Hazardous Decomposition	Not expected to decompose under normal conditions of use		
Products			

Section 11. Toxicological Info	ormation
Principle Routes of Exposure	
Skin:	Irritant. Prolonged and repeated contact will cause redness, burning, drying and cracking of the skin and/or burns. This material can pass into the body through the skin – but is unlikely to cause harmful effects if material is being handled safely.
Eyes:	Irritant. Symptoms include stinging, tearing, redness and swelling of the eyes
Inhalation:	Breathing of vapours or mists are unlikely to cause harmful effects at levels below recommended exposure limits.
Ingestion:	If large amounts are swallowed, product may be aspired into the lungs causing inflammation and other lung injury
Additional Information	
Acute Toxicity	
Toluene	LD50: 2.6 g/kg (Rat, oral) LC50: 8000 ppm (Rat, inhalation) 4Hr LD50: 12124 mg/kg (Rabbit, dermal)

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Chronic Toxic Effects – Liver and kidney damage
Carcinogenicity – Not listed
Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity – Case studies show that
prolonged intentional abuse of toluene during pregnancy can cause birth defects

Section 12. Ecological Information			
Ecotoxicity	LC50: 5.8 mg/L (Rainbow trout) 96 hr renewal		
	LC50: 12.6 mg/L (Fathead minnow) 96 hr static		
	EC50: 6.00 mg/L (Water flea) 48 hr static		
BOD and COD	No data		
Biodegradability / OECD	No data		
Toxicity of the Products	No data		
of Biodegradation			
Special Remarks	None		

Section 13. Disposal Considerations
Dispose of in accordance with local, provincial and federal regulations

Section 14. Transport Information				
TDG Classification	Toluene UN 1294 Class 3 Packing Group II			
Emergency Response	ERG # 130			
Guide #				
Marine Pollutant	No			
Special Precautions	None			

Section 15. Regulatory Information					
Canada – DSL Inventory	All components of this product are either on the Domestic Substances				
	List (DSL) or Non-Domestic Substances List (NDSL) or exempt				
TSCA	All components of this product are either on the Toxic Substances				
	Control Act (TSCA) Inventory List or exempt				
WHMIS Hazard Class	B3 D2B				
Additional Information	None				

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Section 16. Other Information

Prepared by:

Chemfax Products Ltd., Technical Department

Date Prepared: 28 September, 2012

Revision Date: 27 June, 2014

DisclaimerNotice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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