			ENDURA endura manufacturing						
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MATERIAL SAFETY DATA SHEET									
Product Name: TOLU	IENE (TOLI	JOL)							
SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION									
Manufacturer/Supplier:Endura Manufacturing Co. Ltd. 12425 - 149 Street Edmonton, Alberta T5L 2J6 Ph: (780) 451-4242 Fax: (780) 452-507924-Hour Emergency Number:(613) 996-6666 (Canutec) TOLUENE Item Number:Product Name: 									
SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS									
HAZARDOUS INGREDIENTS	C.A.S.	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES	TLV	% WT				
toluene	108-88-3	5 g/kg o-r 14 g/kg d-rbt	8000 ppm/4h i-r	50 ppm	100				
legend:	o=oral	d=dermal	i=inhalation	rbt=rabbit	r=rat				
SECTION 03: HAZARDS IDENTIFICATION									
Eye Contact: Moderately irritating vapors. Eye contact causes severe irritation with redness, pain, tearing, blurred vision. Skin Contact: Very low order of toxicity by skin contact. However, frequent or prolonged contact may irritate the skin and cause defatting, dermatitis. Inhalation: The vapors are of low to moderate toxicity. In high concentrations the vapors are irritating to nose and respiratory tract. Excessive inhalation can cause central nervous system effects including headache, fatigue, dizziness, drowsiness, numbness, confusion and possible unconsciousness. Ingestion: Low order of toxicity. Swallowing may cause abdominal spasms, nausea, vomiting, diarrhea, and other symptoms that parallel overexposure from inhalation. Aspiration into the lungs during swallowing or vomiting may cause severe lung damage. Additional Chronic hazards include liver and kidney damage. Repeated or prolonged contact can cause anemia, decreased blood cell count and bone marrow hypoplasia. May affect developing foetus.									
SECTION 04: FIRST AID MEASURES									
Inhalation (acute):	Rescuers should wear respiratory protection. Remove victim immediately from contaminated area. Apply artificial respiration if breathing has stopped. If breathing is difficult, a qualified person should administer oxygen. Call a								
Ingestion:	Give two glass	physician. Give two glasses of water. Due to the possibility of aspiration into the lungs, do not induce vomiting. Keep at rest and call a physician.							
Eye Contact: Skin Contact: Notes to Physician:	Check for and remove any contact lenses. Flush eyes with water for at least 15 minutes. Get medical attention. Remove contaminated clothing and wash before reuse. Wash skin with soap and water. Seek immediate medical attention. Can aggravate impaired liver or kidneys function. Alcoholic beverage consumption can enhance the toxic effects of the substance.								

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Product Name:					
SECTION 05: FIRE FIGHTING MEASURES					
Flash Point (°C) (TCC):					
Auto Ignition Temperature Upper Explosive Limit (% ' Lower Explosive Limit (% '	°C): 480 ol): 7				
Extinguishing Media: Hazardous Combustion Pr Sensitivity To Mechanical	Use dry chemical, CC oducts:	D ₂ , alcohol foam or water spray. drocarbons.			
Sensitivity To Static Disch Special Fire Fighting Proc	rge: See above. dures: Respirators required water spray to cool fin with water spray used	for firefighting personnel. If possible to do so safely, shut off fuel to fire. Use re-exposed surfaces and to protect personnel. Avoid spreading burning liquid d for cooling containers. When using water spray, boil-over may occur when the			
Conditions of Flammability	Vapors from this proc	reaches the boiling point of water. duct may travel or be moved by air currents and be ignited by pilot lights, other aters, electrical equipment, static discharges or other ignition sources at locations of handling.			
SECTION 06: AC	CIDENTAL RELEASE MEAS	SURES			
Leak / Spill:		 Prevent from entering sewers or watercourses. Ventilate enclosed spaces or rump up (explosion-proof equipment) or soak up with sand, cotton waste or other 			
Clean Up:	absorbent.				
SECTION 07: HA	NDLING AND STORAGE				
Handling Procedures:	is a static accumulator. Trans	ssive heat. Keep containers tightly closed and upright when not in use. Product fer equipment should be properly grounded or bonded. Electrical and be explosion-proof. Containers may retain hazardous residues when emptied			
Storage Needs:	and should be commercially c				
SECTION 08: E>	POSURE CONTROLS / PEF	RSONAL PROTECTION			
PROTECTIVE EQUIPMEN Eye/Type: Respiratory/Type:	Personnel should wear safety				
Gloves/Clothing/Footwear Other/Type: Ventilation Requiremer	A safety shower and eye wash	cal-resistant clothing and rubber or plastic (PVA) gloves and boots. n facility should be available. assured to prevent the accumulation of dangerous amounts of vapor or mist.			
SECTION 09: PH	YSICAL AND CHEMICAL PI	ROPERTIES			
Physical State (appearance Density (g/ml): Odor:	0.86 Aromatic odor	id			
Odor Threshold (ppm): Vapor Pressure (@20 ^o C):. Vapor Density (Air=1):	>22 mm Hg 				
Evaporation Rate: Boiling Point (°C): pH:	110 N/A				
Coefficient of Water/Oil Dis Freezing Point (°C): VOC:		s/gal			

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MATERIAL SAFETY DATA SHEET						
Product Name:	TOLUENE (TOLUOL)					
SECTION 10: STABILITY AND REACTIVITY						
Materials to Avoid:	Strong oxidizing agents, strong alkalies, strong mineral acids. Will attack some forms of plastics, ru	bber and coatings.				
SECTION 11: REGULATORY INFORMATION						
WHMIS Classification	B-2, D-2B					
SECTION 12 DISPOSAL CONSIDERATIONS						
Waste Disposal:	Dispose of waste according to local, provincial and federal regulations. Utilize authorized centers fo combustible chemical material. In case of large spills, warn public of downwind explosion hazard.	r disposal of				
SECTION 13: TRANSPORT INFORMATION						
T.D.G. Classification	Shipping name: TOLUENE. UN number: 1294. Class: 3. Packing group: II.					
SECTION 14: OTHER INFORMATION						
Note: Prepared By: Revision Date:	Information Systems					