



MATERIAL SAFETY DATA SHEET

ADDRESS:
 185 Frobisher Drive
 Waterloo, Ontario
 519-746-7720

PRODUCT IDENTIFICATION	PRODUCT NAME Open Gear Lubricant #2766	Code No. 80,087	EMERGENCY PHONE NUMBER: 1-800-424-9300 (Chemtrec)
	CHEMICAL NAME Open Gear Compound		
	SYNONYMS Synthetic Open Gear Lube		Chemical Family Polybutene

Date Sent
FEB , 2013

INGREDIENTS	MATERIALS OR COMPONENTS	%W	CAS NUMBER	CARCINOGEN OSHA OR IARC
	Polybutene		75-85	9003-29-6
Graphite		16-18	7782-42-5	No
Silica (Fumed)		3-5	112945-52-5	No
Polyethylene		.25-.75	25322-68-3	NO

SHIPPING INFORMATION	Not Restricted
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PHYSICAL PROPERTIES	Boiling Point/Range °C 600 °F	Melting Point °C 500 °F	Freezing Point °C 0 °F	Molecular weight (Calculated) NA	
	Specific Gravity (H ₂ O=1) 0.94 @ / 16 °C	Vapor Pressure (mm Hg) NA °C	Vapor Density (Air=1) NA		
	Solubility in H ₂ O Nil	% Volatiles by Volume 0	Evaporation Rate NA	<input type="checkbox"/> Either = 1 <input type="checkbox"/> Water = 1 <input type="checkbox"/> Butylacetate =1	
	Appearance and Odor Black Semi-Solid		Other		

FIRE AND EXPLOSION DATA	Flash Point °C 490 °F	Test Method D-92	Flammable Limits Lower NA % Upper %	Autoignition Temperature/Fire Point °C 540 °F
	EXTINGUISHING MEDIA <input type="checkbox"/> Water-spray <input checked="" type="checkbox"/> Water-fog <input type="checkbox"/> Water-stream <input checked="" type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> Dry chemical <input type="checkbox"/> Alcohol foam <input checked="" type="checkbox"/> Foam <input checked="" type="checkbox"/> Earth or sand			
	SPECIAL FIRE FIGHTING PROCEDURES <input type="checkbox"/> Do not enter Building <input type="checkbox"/> Allow fire to burn <input checked="" type="checkbox"/> Water may cause frothing <input type="checkbox"/> Do not use water			
	UNUSUAL FIRE AND EXPLOSION HAZARDS <input type="checkbox"/> Dust explosion Hazard <input type="checkbox"/> Sensitive to shock <input type="checkbox"/> Contamination <input type="checkbox"/> Temperature <input type="checkbox"/> Other (Specify): None			

REACTIVITY DATA	STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS CONTRIBUTING TO INSTABILITY <input type="checkbox"/> Thermal decomposition <input type="checkbox"/> Photo degradation <input type="checkbox"/> Polymerization <input type="checkbox"/> Contamination		
	INCOMPATIBILITY - Avoid contact with <input type="checkbox"/> Strong Acids <input type="checkbox"/> Strong Alkalis <input checked="" type="checkbox"/> Strong Oxidizers <input type="checkbox"/> Other (Specify):			
	HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (list) CO & CO₂ IF INCOMPLETE COMBUSTION.			
	CONDITIONS TO AVOID <input type="checkbox"/> Heat <input checked="" type="checkbox"/> Open Flames <input type="checkbox"/> Sparks <input type="checkbox"/> Ignition sources <input type="checkbox"/> Other (specify):			

SPILL OR LEAK	STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED <input type="checkbox"/> Flush with Water <input checked="" type="checkbox"/> Absorb with sand or inert material <input type="checkbox"/> Neutralize <input checked="" type="checkbox"/> Sweep or scoop up and remove <input type="checkbox"/> Keep upwind Evacuate enclosed spaces. <input type="checkbox"/> Prevent Spread or spill			
	WASTE DISPOSAL METHOD - Consult federal, state, or local authorities for proper disposal procedures. ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS.			

CONTINUED ON REVERSE SIDE

NA - Not Applicable

TOXICITY INFORMATION	CONDITIONS TO AVOID Excessive Skin Contact		
	PRIMARY ROUTES OF ENTRY <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> SKIN CONTACT <input type="checkbox"/> OTHER (Specify)		
	This product has been used for years with no known ill effects. It contains no known carcinogens or mutagens as defined by OSHA or IARC.		
	This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):		
	<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>

HEALTH HAZARD INFORMATION	NFPA Rating	Health 0 Flammability 1 Reactivity 0 Protective Equipment B	NFPA HAZARD RATING CODES Least 0 High 3 Slight 1 Extreme 4 Moderate 2
	NOT A CONTROLLED SUBSTANCE UNDER W. H. M. I. S.		

HEALTH HAZARD INFORMATION	Effects of Exposure	PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or Ceiling [c]) ACGIH 20	OSHA 2006	Other: Not Established For Polybutene
	IRRITATION	<input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Eye	<input type="checkbox"/> Severe <input type="checkbox"/> Severe	<input type="checkbox"/> Moderate <input type="checkbox"/> Moderate
	CORROSIVITY	<input type="checkbox"/> Skin <input type="checkbox"/> Eye	<input type="checkbox"/> 4 hrs. (DOT) <input type="checkbox"/> May cause blindness	<input type="checkbox"/> 24 hrs (CPSC) <input checked="" type="checkbox"/> Not Corrosive
	SENSITIZATION	<input type="checkbox"/> Skin <input type="checkbox"/> Respiratory <input checked="" type="checkbox"/> None	INHALATION EFFECTS <input type="checkbox"/> Narcotic effect <input type="checkbox"/> Cyanosis <input type="checkbox"/> Asphyxiant	
	LUNG EFFECTS (Specify): NA			
	OTHER (Specify): <input type="checkbox"/> Repeated contact-skin defatter <input type="checkbox"/> Other (Specify) NA			
	Emergency First Aid	INGESTION DO NOT induce vomiting <input checked="" type="checkbox"/> Induce vomiting <input type="checkbox"/> Give plenty of water <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify):		
DERMAL <input checked="" type="checkbox"/> Flush with soap and water <input type="checkbox"/> Get medical attention <input checked="" type="checkbox"/> Contaminated clothing-remove & launder <input type="checkbox"/> Contaminated shoes - destroy <input type="checkbox"/> Other (Specify)				
EYE CONTACT <input checked="" type="checkbox"/> Flush with plenty of water for at least 15 minutes <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify):				
INHALATION <input type="checkbox"/> Remove to fresh air <input type="checkbox"/> If not breathing give artificial respiration <input type="checkbox"/> Give oxygen <input type="checkbox"/> Get medical attention <input type="checkbox"/> Other (Specify): NA				

SPECIAL PROTECTION INFORMATION	VENTILATION REQUIREMENTS - Always maintain exposure below permissible exposure limits <input type="checkbox"/> Consult an industrial hygienist or environmental health specialist <input type="checkbox"/> Local exhaust <input checked="" type="checkbox"/> Use with adequate ventilation <input type="checkbox"/> Check for air contamination and oxygen deficiency		
	EYE	<input type="checkbox"/> Safety glasses <input type="checkbox"/> Face Shield <input type="checkbox"/> Goggles	HAND (GLOVE TYPE) <input type="checkbox"/> Polyvinyl chloride <input checked="" type="checkbox"/> Neoprene <input type="checkbox"/> Butyl Rubber <input type="checkbox"/> Polyvinyl alcohol <input type="checkbox"/> Other (Specify): <input type="checkbox"/> Natural rubber <input type="checkbox"/> Polyethylene
	RESPIRATOR TYPE - Use only NIOSH / MESA approved equipment <input type="checkbox"/> Self-contained <input type="checkbox"/> Supplied air <input type="checkbox"/> Can or cartridge gas or vapor <input type="checkbox"/> Filter-dust, fume, mist <input type="checkbox"/> Other (Specify): NA		
	OTHER PROTECTIVE EQUIPMENT <input type="checkbox"/> Rubber boots <input type="checkbox"/> Apron <input type="checkbox"/> Other (specify): None		

SPECIAL PRECAUTIONS	PRECAUTIONARY NOTES <input checked="" type="checkbox"/> Wash Thoroughly after handling <input checked="" type="checkbox"/> Do not get in eyes, or on clothing <input type="checkbox"/> Do not breathe dust, vapor, mist, gas <input checked="" type="checkbox"/> Keep container closed <input checked="" type="checkbox"/> Keep away from sparks, and open flames <input type="checkbox"/> store in tightly closed containers <input type="checkbox"/> Do not store near Combustibles <input type="checkbox"/> Keep from contact with clothing and other combustible materials <input type="checkbox"/> Empty container may contain hazardous residues <input type="checkbox"/> Use explosion proof equipment <input type="checkbox"/> Other (Specify):		
	Other handling and storage conditions Normal Precautions Common To Good Manufacturing Practices Should Be Followed		

Prepared by	Date	Rev	Address	Phone
	02/2013		68 Titan Road, Toronto, Ontario M8Z 2J8	(416) 239-1548

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