

# Material Safety Data Sheet

Manufactured by:

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**IMC PART #' DOT 4 & DOT 4 5L**

**81 22 0 142 155 & 81 22 142 156**

## PENTOSIN SUPER DOT 4 BRAKE FLUID

Product Classification	
Transportation Classification	WHMIS Classification
Not Regulated	Class D, Division 2A, Toxic Material

Hazardous Ingredients				
Ingredients	%	CAS No.	Exposure Limits	LD50 LC50
Proprietary mixture of Triethylene Glycol monomethyl ester and inhibitors	40-60	68441441	Non Established	14800 mg/kg
Triethylene glycol monomethyl ether	10-30	112356	Not Applicable	11 mg/kg
Triethylene glycol monobutyl ether	20-30	143226	Not Applicable	6370 mg/kg
Triethylene glycol	5-10	112276	Not Applicable	17 mg/kg
Tributylamine	0-1	102829	Not Applicable	540 mg/kg oral rate tests

Physical Data			
Physical State: Liquid	Odor/Color: Mild ether odor, clear light amber color		
Odor Threshold: N/A	Vapor Pressure: .01 mbar	Vapor Density: 3.1	
Evaporation Rate: N/A	Boiling Point: 270° C	Freezing Point: -50° C	
Specific Gravity: 1.05-1.06	PH Factor: 8.0	Coeff. Water/Oil Distribution: N/A	

Fire and Explosion Data	
Flammability: Combustible	Flashpoint: 140° C
Means to Extinguish: Water, Dry -Powder, Foam, Halon	Lower Flammable Limit: 0.6%
Upper Flammable Limit: N/A	Hazardous Combustion prods: Carbon Oxides, Aldehydes
Autoignition Temp: 300-350° C	Sensitive to Static Discharge: No
Sensitive to Impact: No	

Reactivity Data	
Chemical Stability: Stable	Incompatible with Other Substances: Acids and Oxidans
Reactivity Conditions: Will react violently with oxidizers and acids, particularly oleum, sulphuric acid and electrolyte battery acid.	
Hazardous Decomposition Products: Toxic Fumes	

<b>Toxicological Properties</b>			
Route of Entry: Inhalation, ingestion, skin and eye contact.			
Effects of Acute Exposure: Eye irritation, headaches, dizziness, drowsiness. If ingested, abdominal spasms, vomiting and diarrhea. Serious cases affect the nervous system, may cause liver, kidney and brain damage.			
Effects of Chronic Exposure: Overexposure to fumes for prolonged periods may cause allergies or possibly kidney or liver damage. Liquid contact degrades skin.			
Exposure Limits: Not Established	Irritancy of Product: Respiratory Tract	Sensitization to Product: Possible for people with allergies	Carcinogenicity: Positive test in 1984 on Ethylene Glycol
Teratogenicity: None	Reproductive Toxicity: None	Mutagenicity: None	Synergistic Products: None

<b>Preventative Measures</b>			
Personal Protective Equipment:			
Gloves: Solvent proof gloves	Respirator: In case of fire NIOSH approved Independent Air Supply	Eye Protection: Splash Goggles	Footwear: N/A
Clothing: Long Sleeves	Other Protection: Not Required	Engineering Controls (Ventilation): Use in well ventilated area	
Leak and Spill Procedure: Soak up and remove with non-flammable absorbent material such as diatomaceous earth, sand or mica.			
Waste Disposal: Dispose in approved landfill sites in accordance with Federal, State or Local Regulations.			

<b>Handling and Storage</b>
Handling Procedures and Special Equipment: Do not handle near open flames. Store away from oxidizers and acids, in well ventilated cool area.
Special Shipping Information: Not regulated.

<b>First Aid Measures</b>
Specific First Aid Measures: Remove contaminated clothes.
Inhalation: If overcome by fumes remove to fresh air and give artificial respiration or oxygen. Seek immediate medical attention.
Eyes: Flush continually with water for fifteen minutes.
Skin: Wash thoroughly with soap and water.
Ingestion: Administer ample amounts of water and induce vomiting. Seek medical attention immediately.

<b>Preparation Data</b>
Preparation of this material safety data sheet included research of and/or use of information obtained from:
1. Dangerous Properties of Industrial Materials, Irving Sax, Van No Strand Reinhold Company
2. Chemical Abstract Service, Columbus, Ohio
3. Canadian Center of Occupational Health and Safety, Hamilton, Ontario
4. Chemical Hazard Response Info System, Washington, D.C.
5. Manufacturer Supplied Info. And Material Supplier MSDS
6. Transportation of Dangerous Goods Act
7. Hazardous Products Act, Controlled Products Regulations