



SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **Triumph Saw Guide Oil**
Product use: Used as Saw Guide Lubricant.
Manufacturer: WYS Manufacturing Ltd.
Bay 7 & 8, 4216 – 54th Ave. SE
Calgary, Alberta T2C 2E3
Phone 1-403-252-2239
Canada

Supplier: Maryn International Ltd.
Bay 5 & 6, 4216 – 54th Ave. SE
Calgary, Alberta T2C 2E3
Phone 1-403-252-2239
Canada

Emergency Phone Number: CANUTEC – 24 hr Emergency No. 1-613-996-6666
Business Hour Number 1-403-252-2239
(Monday through Friday 8:00am to 4:30pm MST)

MSDS Prepared By Z. Ansarizadeh
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Date Prepared September 17, 2008

SECTION II: COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Ingredients	Concentration %	C.A.S. #	LD₅₀ (Species/Route)	LC₅₀ (Species/Route)
None Applicable				

SECTION III: Hazards Identification

Emergency Overview No hazards under normal conditions of use.

Route of entry Skin and eye contact are the primary routes of exposure to this product.

Ingestion No significant hazard. Minimal toxicity. Ingestion of large amounts may cause laxative effects . If drawn into lungs from swallowing or vomiting, may cause bronchopneumonia or pulmonary edema.

Inhalation No inhalation dangers at room temperature as there are no vapours. If product is misted at elevated temperature, high concentration of vapour and/or mist may cause irritation, experienced as nasal discomfort and discharge.



Skin Contact and absorption	Not expected to cause more than slight skin irritation. Frequent or prolonged contact may irritate the skin and cause a skin rash, defatting, drying, and dermatitis.
Eye Contact	May cause slight irritation to the eyes but will not cause injury to the eye tissue.
Effects of Chronic Exposure	Repeated exposure over prolonged periods of time may cause irritation to the skin, respiratory system and eyes. Follow good industrial hygiene practices to avoid exposure.
Effects of Acute Exposure	Breathing mist caused by high temperature or swallowing large quantities may be irritating to skin, respiratory system, mucous membranes and eyes.

SECTION IV: First Aid Measures

Ingestion	Do not induce vomiting. Have victim drink 240 to 300 mL of water. Do not give anything by mouth if victim is rapidly losing consciousness, is unconscious, or convulsing. Call physician immediately.
Skin Contact	Wash well with soap and water for 15 minutes. Launder clothes prior to re-use.
Inhalation	Remove source of contamination. Remove victim to fresh air. If no relief is obtained, consult physician.
Eye Contact	Flush with clean tepid water for 15 minutes keeping eyelids open. If irritation persists, consult physician.
Notes to Physician	Not available.

SECTION V: Fire-Fighting Measures

Flammability	Non flammable at ambient temperature. Liquid may burn at temperatures above flash point if exposed to an open flame.
Means of Extinction	Carbon dioxide foam, dry chemicals. Keep containers cool with water spray. When fighting fire, treat as petroleum product, wear full protective clothing, including NIOSH approved self-contained breathing apparatus. Avoid spreading with water flooding.
Flash Point (ASTM D92)	216°C (420°F)
Upper Flammability Limits	Not Determined.
Lower Flammability Limits	Not Determined.
Auto Ignition Temperature	Not Determined.
Hazardous Combustion Products	Oxides of carbon, sulphur, nitrogen, phosphorous, zinc, hydrogen sulphide and dense smoke.
Fire and Explosion Hazards	None at normal temperatures below flash point. Do not cut, weld, or pressurize empty container. Container may explode in heat of fire.



Sensitivity to impact None.
Static Discharge

SECTION VI: Accidental Release Measures

Personal Protection Wear suitable protective equipment. Eliminate sources and or potential sources of ignition. See section VIII.

Environmental Precautions Product is partially soluble in water. Do not flush to sewers, streams or other bodies of water. For disposal, see Section XIII.

Methods for cleaning up Absorb on inert material such as sand, earth, vermiculite. Sweep up and collect in a suitable container for disposal. Observe government regulations.

Large spills Stop leak if without risk. Dike to contain spill. Pump excess material into suitable container (metal drums, metal tanks, or such).

SECTION VII: Handling and Storage

Handling Avoid excess heat, formation of oil mist, breathing vapours and mist from hot oil, and prolonged or repeated contact with skin

Storage Store in a cool, dry, well ventilated area. Keep container tightly closed and away from heat, spark and open flame.

SECTION VIII: Exposure Controls / Personal Protection

Exposure Limits
If used in a way that generates a mist, observe the limits for mineral oil mist

Component	Exposure Limit (ACGIH)	Exposure Limit (OSHA)	Immediately Dangerous to Life and Health (IDLH)
Mineral Oil Mist	5 mg/m ³ TWA-TLV 10 mg/m ³ STEL-TLV	5 mg/m ³ TWA-PEL Not Established STEL-PEL	2500 mg/m ³
Vegetable Oil Mist	Not Established	5 mg/ m ³ TWA-PEL (Respirable fraction) 15 mg/m ³ TWA-PEL (Total dust)	Not Established

Engineering Controls For normal application, special ventilation is not necessary. If user's operation generates mist, use ventilation to keep exposure to airborne contaminants below exposure limits. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to workstation.



Respiratory Protection	Use approved respirator with dual organic vapour / mist and particulate cartridge if vapour concentration exceeds permissible exposure limit. A NIOSH-approved positive-pressure, air-supplied respirator or self-contained breathing apparatus may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
Eye Protection	Use chemical splash goggles with side shields if risk of splashing present.
Skin Protection	Use rubber or plastic apron.
Hand Protection	Use oil resistant gloves.

SECTION IX: Physical and Chemical Properties

Physical State:	Liquid
Odour:	Mild petroleum odour
Appearance:	Clear, light green
Odour Threshold:	Not established
Specific Gravity:	0.874 at 20°C (68°F)
Vapour Pressure:	Not available
Vapour Density:	Not available
Evaporation Rate:	Not available
Boiling Point:	Not determined
Pour Point:	-32°C (-25.6°F)
Solubility in Water:	Partially soluble
pH:	Not available
Partitioning Coefficient:	Not available

SECTION X: Stability and Reactivity

Chemical Stability:	Stable
Incompatibility:	Avoid contact with oxidizing agents, reducing agents, acids and ignition source.
Reactivity:	No reactivity
Polymerization:	Will not occur
Decomposition Products:	Oxides of carbon, sulphur, nitrogen, phosphorous, zinc, hydrogen sulphide and dense smoke.

SECTION XI: Toxicological Information

Effects of Acute and Chronic Exposure:

Skin Contact	Frequent or prolonged contact may irritate, defat, and dry the skin and cause a skin rash, or dermatitis. Acute exposure is expected to cause only slight irritation, if any.
Skin Absorption	No evidence of adverse effects from available information. Prolonged contact may cause mild irritation.



Eye Contact	Slight irritation to eyes, but will not injure eye tissue.
Inhalation	No inhalation dangers at room temperature as there are no vapours. If the product is misted, high concentrations of vapours and/or mist may cause respiratory tract irritation, experienced as nasal discomfort and discharge.
Ingestion	No significant hazard. Minimal toxicity. Ingestion of large amounts may cause laxative effects. If drawn into lungs from swallowing or vomiting, may cause chemical pneumonitis or pulmonary edema.
Irritancy:	Slight irritation to eyes. Frequent or prolonged contact may irritate skin. If misted, inhalation of mist may cause irritation.
Sensitization:	Repeated or prolonged contact is not expected to cause sensitization, based on available data and known hazards.
Carcinogenicity:	This product contains material that has not been listed as a carcinogen or potential carcinogen by either the National Toxicology Program, International Agency for Research on Cancer, or the Occupational Safety and Health Administration.
Reproductive Toxicity:	Based on available animal data, white mineral oils or severely hydro-treated base oils do not pose a reproductive risk.
Teratogenicity:	Based on the available animal data, white mineral oils or severely hydro-treated base oils do not pose a developmental or teratogenicity risk.
Embryotoxicity:	No information is available and no adverse effects are anticipated.
Mutagenicity:	Base oil exhibited negative mutagenic activity toward: (1) Salmonella Typhimurium TA 98 using Modified Ames Assay for petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay.
Toxicologically Synergistic Products:	Not available.

SECTION XII: Ecological information

Environmental Fate:

Base fluid has the potential for degradation by bacteria over an extended period of time. Similar product base oil are 57-88% biodegradable in 28 days.

Environmental Effects:

Based on toxicity of similar products, base oils have low toxicity toward aquatic organisms. LC50 (Rainbow Trout): >400,000 ppm in 96 hours (0% mortality). LC50 (Mysidopsis bahai): > 500,000 ppm in 96 hours. Passed the EPS 1/RM/24 Microtox test using photoluminescent bacteria.

SECTION XIII: Disposal Consideration

RCRA 40 CFR 261 Classification Not listed
US EPA Waste Number / Classification Not available



Waste Disposal

Dispose of waste material in compliance with all federal, state, provincial and local regulations. Incinerate in a furnace or bury in an approved landfill where permitted under appropriate federal, provincial and local regulations.

SECTION XIV: Transport Information

Department of Transport:	Not regulated under DOT
TDG – Canada	Not regulated under TDG.
DOT/TDG Proper Shipping Name:	None
DOT/TDG Hazard Class:	None
Product Identification Number:	None
Packing Group:	None
DOT/TDG Labels: Primary:	None required
Subsidiary:	None required
DOT/TDG Placards:	None required

SECTION XV: Regulatory Information

CPR Compliance:

This product has been classified in accordance with the hazard criteria of *the Controlled Products Regulations* and the MSDS contains all of the information required by those regulations.

OSHA Hazard Communication Standards 29CFR 1910.1200:

This product is not known to contain any of the carcinogens required to be listed under OSHA Hazards Communication Standards 29 CFR 1910.1200.

WHMIS Classification:

Not a controlled product under WHMIS.

CERCLA:

Not listed on CERCLA (40CFR 302.4). If this product is accidentally spilled, it is not subject to special reporting under requirements of the Comprehensive Environmental Response and Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA Title III Section 311/312:

Under the provisions of Title III, Section 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard category: **NONE**.

SARA Title III Section 313:

This product does not contain more than 1 % of any of the chemical substances listed under SARA Section 313.

RCRA:

Not listed on the **RCRA** (40 CFR 261.33) for hazardous waste.

NPRI:

Not listed in the **NPRI** under Canadian EPA.

Chemical Inventory

Canada: The ingredients of this product are on the DSL.

United States: The ingredients of this product are on the TSCA



SECTION XVI Other Information

HMIS Information

Degree of Hazard	HMIS Rating
4= Severe	Health 1
3= Serious	Flammability 1
2= Moderate	Reactivity 0
1= Slight	
0= Minimal	

Revision Information

Prepared by: Maryn Research

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