



SECTION I: Chemical Product and Company Identification

Product Identifier: **Penetrating Fluid 2000**
Manufacturer: WYS Manufacturing Ltd.
Bay 7 & 8, 4216 – 54th Ave. SE
Calgary, Alberta T2C 2E3
Canada

Supplier: Maryn International Ltd.
Bay 5 & 6, 4216 – 54th Ave. SE
Calgary, Alberta T2C 2E3
Canada

Product use: Use as Anti-seize lubricant
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)

SECTION II: Composition/ Information on Ingredients

Hazardous Ingredients	Concentration %	C.A.S. #	Exposure limit	LD₅₀ (Species/Route)	LC₅₀ (Species/Route)
Light distillate hydro-treated	60-100%	64742-47-8	NA	>5g/kg rat oral >3g/kg rabbit skin	NA

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 intestinal blockage. If drawn into lungs from swallowing or vomiting, may cause bronchopneumonia or pulmonary edema.

Inhalation High vapour concentration (>700 ppm, attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

Skin Contact Frequent or prolonged contact may irritate the skin and cause a skin rash.

Eye Contact Slight irritation to the eyes but will not cause injury to the eye tissue.

Effects of Repeated exposure over prolonged periods of time may cause irritation to the skin, respiratory system and



Chronic Exposure Effects of Acute Exposure eyes. Follow good industrial hygiene practices to avoid 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. Call physician immediately.

Skin Contact Wash well with soap and water. Launder clothes prior to re-use.

Inhalation If excessive fumes, 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 **May form combustible mixtures at or above the flash point.** Empty product containers may contain product residue. Do not expose containers to flame or other sources of ignition.

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) 105°C (221°F)

Upper Flammability Limits Approximately 8.8% by volume

Lower Flammability Limits Approximately 1.3% by volume

Auto Ignition Temperature Approximately 250°C (482°F)

Hazardous Combustion Products Oxides of carbon, sulfur 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 Static Discharge Yes, use proper grounding procedure.

SECTION VI: Accidental Release Measures

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

Environmental Precautions Product is readily 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 vapors and mist from hot oil, and prolonged or repeated contact with skin

Storage Store in a cool well ventilated area. Keep away from heat spark and open flame.

SECTION VIII: Exposure Controls / Personal Protection

Component	Value	Type	Remark
Mineral Oil Mist	5 mg/m ³ 10 mg/m ³	TWA (mist) ACGIH STEL(mist) ACGIH	If used in a way that generates a mist, observe the limits for mineral oil mist

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.

Respiratory Protection Use approved respirator with dual organic vapor / mist and particulate cartridge if vapor concentration exceeds permissible exposure limit. Use Self-Contained Breathing Apparatus in high vapour concentrations.

Eye Protection Use chemical splash goggles 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 amber
Odour Threshold: Not established
Specific Gravity: 0.82 at 20°C (68°F)
Vapour Pressure: <1.12 mm Hg at 25°C (77°F)
Vapor Density: 6.6 (Air = 1)
Evaporation Rate: <0.1 (nButyl Acetate = 1)
Boiling Point: >224°C (>435°F)
Pour Point: -67°C (-88°F)
Solubility in Water: Soluble
pH: Not available



Partitioning Coefficient: Not available

SECTION X: Stability and Reactivity

Chemical Stability: Stable
Incompatibility: Avoid contact with oxidizing agents, reducing agents, and ignition source.
Reactivity: No reactivity
Polymerization: Will not occur
Decomposition Products: Oxides of carbon, sulfur and dense smoke.

SECTION XI: Toxicological Information

Skin Contact Frequent or prolonged contact may irritate the skin and cause a skin rash.

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 High vapour concentration (>700 ppm, attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

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

Sensitization: Repeated or prolonged contact may cause sensitization in some individuals.

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: No information is available and no adverse effects are anticipated.

Teratogenicity: No information is available and no adverse effects are anticipated.

Mutagenicity: No information is available and no adverse effects are anticipated.

SECTION XII: Ecological information

Environmental Fate:
No specific environmental fate data is available. This product is not expected to be readily biodegradable.

Environmental Effects:
No specific toxicity or environmental effect data is available.

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
UN 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 2
2= Moderate	Reactivity 0
1= Slight	
0= Minimal	

Revision Information

Prepared by: Maryn Research

Phone: 1-403-252-2239

Effective Date: March 11th 2008

Supersedes: April 27, 2005

Revision: 2.0

Maryn International Ltd. (the "Company"), shall not be liable for any damages arising from the information contained on this data sheet howsoever caused, if the product in question is not employed in a normal or foreseeable use or circumstances. The Company shall not be liable for any indirect or consequential damages arising out of the use of the information contained on this data sheet howsoever caused.