



## **SECTION I: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** **Hydrosol**  
**Product use:** Used as Lubricating Oil.  
**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  
Phone 1-403-252-2239

**Date Prepared** July 20, 2010

## **SECTION II: COMPOSITION/ INFORMATION ON INGREDIENTS**

<b>Hazardous Ingredients</b>	<b>Concentration %</b>	<b>C.A.S. #</b>	<b>LD<sub>50</sub> (Species/Route)</b>	<b>LC<sub>50</sub> (Species/Route)</b>
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.

<b>Skin Contact and absorption</b>	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.
<b>Eye Contact</b>	Slight irritation to the eyes but will not cause injury to the eye tissue.
<b>Effects of Chronic Exposure</b>	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.
<b>Effects of Acute Exposure</b>	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**

<b>Ingestion</b>	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.
<b>Skin Contact</b>	Wash well with soap and water (at least 5 minutes). Launder clothes prior to re-use.
<b>Inhalation</b>	Remove source of contamination. Remove victim to fresh air. If no relief is obtained, consult physician.
<b>Eye Contact</b>	Flush with clean tepid water for 15 minutes keeping eyelids open. If irritation persists, consult physician.
<b>Notes to Physician</b>	Not available.

#### **SECTION V: Fire-Fighting Measures**

<b>Flammability</b>	Non flammable at ambient temperature. Liquid may burn at temperatures above flash point if exposed to an open flame.
<b>Means of Extinction</b>	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.
<b>Flash Point (ASTM D92)</b>	200°C (394°F)
<b>Upper Flammability Limits</b>	Not Determined.
<b>Lower Flammability Limits</b>	Not Determined.
<b>Auto Ignition Temperature</b>	Not Determined.
<b>Hazardous Combustion Products</b>	Oxides of carbon, sulphur, nitrogen, phosphorous, zinc, and dense smoke.
<b>Fire and Explosion Hazards</b>	None at normal temperatures below flash point. Do not cut, weld, or pressurize empty container. Container may explode in heat of fire.
<b>Sensitivity to impact</b>	None.



**Static Discharge**

**SECTION VI: Accidental Release Measures**

<b>Personal Protection</b>	Wear suitable protective equipment. Eliminate sources and or potential sources of ignition. See section VIII.
<b>Environmental Precautions</b>	Product is soluble in water. Do not flush to sewers, streams or other bodies of water. For disposal, see Section XIII.
<b>Methods for cleaning up</b>	Absorb on inert material such as sand, earth, vermiculite. Sweep up and collect in a suitable container for disposal. Observe government regulations.
<b>Large spills</b>	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**

<b>Handling</b>	Avoid excess heat, formation of oil mist, breathing vapours and mist from hot oil, and prolonged or repeated contact with skin
<b>Storage</b>	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 <sup>3</sup> TWA-TLV 10 mg/m <sup>3</sup> STEL-TLV	5 mg/m <sup>3</sup> TWA-PEL Not Established STEL-PEL	2500 mg/m <sup>3</sup>

<b>Engineering Controls</b>	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.
<b>Respiratory Protection</b>	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:** Viscous liquid  
**Odour:** Mild petroleum odour  
**Appearance:** Clear, light amber  
**Odour Threshold:** Not established  
**Specific Gravity:** 0.876 at 20°C (68°F)  
**Vapour Pressure:** Not available  
**Vapour Density:** Not available  
**Evaporation Rate:** Not available  
**Boiling Point:** Not determined  
**Pour Point:** Not available  
**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, acids and ignition source.  
**Reactivity:** No reactivity  
**Polymerization:** Will not occur  
**Decomposition Products:** Oxides of carbon, sulphur, nitrogen, phosphorous, zinc, 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.



<b>Ingestion</b>	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.
<b>Irritancy:</b>	Slight irritation to eyes. Frequent or prolonged contact may irritate skin. If misted, inhalation of mist may cause irritation.
<b>Sensitization:</b>	Repeated or prolonged contact is not expected to cause sensitization, based on available data and known hazards.
<b>Carcinogenicity:</b>	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.
<b>Reproductive Toxicity:</b>	No information is available and no adverse effects are anticipated.
<b>Teratogenicity:</b>	No information is available and no adverse effects are anticipated.
<b>Embryotoxicity:</b>	No information is available and no adverse effects are anticipated.
<b>Mutagenicity:</b>	No information is available and no adverse effects are anticipated.
<b>Toxicologically Synergistic Products:</b>	Not available.

## **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**

<b>Department of Transport:</b>	Not regulated under DOT
<b>TDG – Canada</b>	Not regulated under TDG.
<b>DOT/TDG Proper Shipping Name:</b>	None
<b>DOT/TDG Hazard Class:</b>	None
<b>Product Identification Number:</b>	None



<b>Packing Group:</b>	None
<b>DOT/TDG Labels: Primary:</b>	None required
<b>Subsidiary:</b>	None required
<b>DOT/TDG Placards:</b>	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**

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

### **Revision Information**

**Prepared by:** Maryn Research

Phone: 1-403-252-2239

**Effective Date:** July 20, 2010

**Supersedes:** August 11, 2008

**Revision:** 4.0

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.