



SECTION I- Chemical Product and Company Identification

Product Identifier:

HYDRA MAXX

Manufactured by:

WYS Manufacturing Ltd.
Bay 7 & 8, 4216 – 54th Ave. SE
Calgary, Alberta T2C 2E3
Canada

Manufactured for:

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

Product use:

Used as a 5% additive to hydraulic fluid.

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
Isopropylated Triphenyl Phosphate	1.0-5.0	68937-41-7	Not Indicated
Calcium Alkyl naphthalene Sulfonate	1.0-5.0	57855-77-3	Not indicated
Triphenyl Phosphate	0.1-1.5	115-86-6	3 mg/m ³ (OSHA PEL TWA) 3 mg/m ³ , A4 (ACGIH TLV TWA) 3 mg/m ³ (NISOH REL TLV)
Alkyl Amino Benzotriazole	0.5-1.5	94270-86-7	Not indicated

WHMIS Classification: Class **D2B** Material with Other toxic Effects.

SECTION III Hazards Identification

Emergency Overview

No hazards under normal conditions of use. Mists generated by heat, violent agitation or spraying will irritate skin, eyes, nose, throat and respiratory system.

Potential Health Effects
Route of entry

Inhalation, ingestion, skin absorption and eye contact are the primary routes of exposure to this product.



Ingestion	No significant hazard. Moderate toxicity. Ingestion of large amounts may cause intestinal blockage, nervous system effects, nausea, abdominal discomfort, vomiting and diarrhea. If drawn into lungs from swallowing or vomiting, this product may cause bronchopneumonia or pulmonary edema.
Inhalation	May cause respiratory tract irritation, mucous membrane irritation and nervous system effects. If product is misted at elevated temperatures, high concentration of vapour and/or mist may cause irritation, nasal discomfort and discharge, headaches, dizziness and nausea.
Skin Contact	Frequent or prolonged contact is likely to irritate the skin and cause a skin rash.
Eye Contact	This product is likely to irritate the eyes but is not likely to cause injury to the eye tissue.
Effects of Chronic Exposure	Repeated exposure over prolonged periods of time is likely to cause irritation to the skin, respiratory system and eyes. It may also cause liver, adrenal, thymus, reproductive, developmental and neurological effects based on animal data. Follow good industrial hygiene practices to avoid exposure.
Effects of Acute Exposure	Breathing mist caused by high temperatures or swallowing large quantities is likely to 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. If irritation develops, consult a physician.
Inhalation	If respiratory symptoms develop or excessive fumes are encountered, remove victim to fresh air. If no relief is obtained, consult physician.
Eye Contact	Remove victim from exposure. Flush eyes with clean tepid water for 15 minutes keeping eyelids open. If irritation persists, consult physician.
Notes to Physician	Product has low acute oral and dermal toxicity and is likely to be irritating to the eyes and skin. Treatment is controlled removal from exposure followed by symptomatic and supportive care. Human systemic toxicity information is unavailable, but expected to be low.

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 and 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 and keep runoff out of sewers and water sources.

Flash Point (ASTM D92)	>135°C (>275°F)
Upper Flammability Limits	Not Determined.
Lower Flammability Limits	Not Determined.
Auto Ignition Temperature	Not Determined.
Hazardous Combustion Products	Oxides of carbon, chlorine, phosphorus, sulfur, dense smoke, irritating fumes, methacrylates and hydrogen sulfide.
Fire and Explosion Hazards	Under fire conditions, toxic and irritating fumes may be emitted.
Sensitivity to Static Discharge	None at normal temperatures below flash point. Do not cut, weld, or pressurize empty container. Container may explode in heat of fire.

SECTION VI Accidental Release Measures

Personal Protection	Where prolonged and repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves (butyl or nitrile). Where high temperature applications or exposure to misted product occurs, wear a NIOSH approved organic cartridge respirator or a self-contained breathing apparatus. Eliminate sources and or potential sources of ignition.
Environmental Precautions	Avoid releasing into the environment. Do not flush to sewers, streams or other bodies of water. This product is a marine pollutant. 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. Wash the area with a suitable detergent and rinse thoroughly. Observe government regulations.
Large spills	Stop leak if without risk. Eliminate all ignition sources. Dike to contain spill. Pump excess material into suitable container (metal drums, metal tanks, or such).

SECTION VII Handling and Storage

Handling	Use appropriate personal protection equipment. 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 well ventilated area. Keep away from heat spark and open flame.



SECTION VIII Exposure Controls / Personal Protection

Exposure Limits

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. Ensure that eyewash station and safety shower are close to work station.
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 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	Boiling Point:	>230°C (>446°F)
Odour:	Mild petroleum odour	Pour Point:	-30°C (-22°F)
Appearance:	Clear, light amber color	Solubility in Water:	Insoluble
Odour Threshold:	Not established	pH:	Not available
Density:	0.98 kg/L at 20°C (68°F)	Partitioning Coefficient:	<1.0
Vapour Pressure:	<1.00 mm Hg at 20°C (68°F)	Kinematic Viscosity:	~ 42 cSt @ 40°C
Vapor Density:	Not available	Flash Point (open cup):	150°C (302°F)
Evaporation Rate:	Not available	Fire Point (open cup):	159°C (318°F)

SECTION X Stability and Reactivity

Chemical Stability:	Stable under normal conditions of handling use.
Incompatibility:	Avoid contact with oxidizing agents, strong acids and bases, and ignition sources.
Reactivity:	No reactivity



Polymerization: Will not occur

Decomposition Products: Oxides of carbon, chlorine, phosphorus, sulfur, dense smoke, irritating fumes, methacrylates and hydrogen sulfide.

SECTION XI Toxicological Information

Hazardous Ingredients	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
Toxic Components	>2000 mg/kg rat (acute oral) >2000 mg/kg rabbit (acute dermal)	>200 mg/m ³ /4h rat (acute inhalation)

Irritancy / Route of Entry:

Skin Contact

Frequent or prolonged contact is likely to irritate the skin and cause a skin rash. Avoid contact with skin.

Skin Absorption

No evidence of adverse effects from available information. Prolonged contact is likely to cause skin irritation.

Eye Contact

Eye irritant. Avoid contact with eyes. Not likely to injure eye tissue.

Inhalation

May cause respiratory tract irritation, mucous membrane irritation and nervous system effects. Avoid inhalation. If product is misted at elevated temperature, high concentration of vapour and/or mist may cause irritation, nasal discomfort and discharge, headaches, dizziness and nausea.

Ingestion

No significant hazard. Moderate toxicity. Ingestion of large amounts may cause intestinal blockage, nervous system effects, nausea, abdominal discomfort, vomiting and diarrhea. If drawn into lungs from swallowing or vomiting, may cause bronchopneumonia or pulmonary edema.

Sensitization:

Repeated or prolonged contact is likely to cause skin or respiratory tract sensitization in some individuals.

Carcinogenicity:

This product contains material is listed as a potential carcinogen by the Occupational Safety and Health Administration.

Reproductive Toxicity:

This material has potential reproductive toxicity. Potential risk of impaired fertility and harm to the unborn child.

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 soluble in water and contains material that is highly toxic to fish.



Environmental Effects: This product is harmful to the environment. It is considered to be a marine pollutant. Avoid releasing into the environment.

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 – US and TDG – Canada

DOT/TDG Proper Shipping Name: Environmentally hazardous substance, liquid, n. o. s. (Contains isopropylated triaryl phosphates, triphenyl phosphate and a benzotriazole.)

DOT/TDG Hazard Class: 9
UN Number: UN3082
Packing Group: III
DOT/TDG Labels: **Primary:** Miscellaneous **Subsidiary:** Marine Pollutant
DOT/TDG Special Provisions: 8, IB3, T4, TP1, TP29, 146
DOT/TDG Packaging: **Bulk:** 241 **Non-Bulk:** 203

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 contains triphenyl phosphate, which is a potential carcinogen (classification TLV-A4) listed under OSHA Hazards Communication Standards 29 CFR 1910.1200.

WHMIS Classification: Class D2B: Material with Other toxic Effects.

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 categories: **ACUTE AND CHRONIC.**

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 2
3= Serious	
2= Moderate	Flammability 1
1= Slight	
0= Minimal	Reactivity 0

Revision Information

Prepared by: Maryn Research
Phone: 1-403-252-2239

Effective Date: July 17, 2007

Supersedes: February 28, 2005

Revision: 3

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.