



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

**Product Identifier:** **NNL 690G**

**Product use:** Used as a 1%, 3%, or 5% additive to conventional lubricants.

**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** September 5, 2008

## **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>
Acrylic Copolymer	1-5%	Trade Secret	NA	NA
Diocetyl Phthalate	1-5%	117-81-7	>30000 mg/kg (Rat/Oral) >24500 mg/kg (Rabbit/Dermal)	NA
Isopropylated Triphenyl Phosphate	0.1-1%	68937-41-7	NA	NA
Polyolester	0.1-1%	68424-328	NA	NA

NA: Not Available



### **SECTION III: Hazards Identification**

<b>Emergency Overview</b>	Causes eye irritation. May cause skin, respiratory tract, and mucous membrane irritation. May cause nervous system effects.
<b>Route of entry</b>	Inhalation, ingestion, skin and eye contact are the primary routes of exposure to this product.
<b>Ingestion</b>	May cause nervous system effects. Ingestion of large amounts may cause intestinal blockage. If drawn into lungs from swallowing or vomiting, may cause bronchopneumonia or pulmonary edema.
<b>Inhalation</b>	May cause respiratory tract and mucous membrane irritation as well as nervous system effects. 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>	Frequent or prolonged contact may irritate the skin and cause a skin rash.
<b>Eye Contact</b>	Irritating 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 and respiratory system. It may also cause liver, adrenal, thymus, reproductive, developmental, and neurological effects. Follow good industrial hygiene practices to avoid exposure.
<b>Effects of Acute Exposure</b>	Product is irritation to the eyes. 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. If victim is conscious and alert, give 2-4 cups of water. Never give anything by mouth to an unconscious person. Call physician immediately.
<b>Skin Contact</b>	Remove contaminated clothing. Wash well with soap and water for at least 15 minutes. Launder clothes prior to re-use.
<b>Inhalation</b>	If excessive fumes, remove victim to fresh air. If not breathing, qualified personnel may provide artificial respiration. 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>	Treat symptomatically.

### **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.
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<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>	170°C (338°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, phosphorous and chlorine, hydrogen chloride, hydrogen sulphide and dense smoke.
<b>Fire and Explosion Hazards</b>	None
<b>Sensitivity to impact</b>	None at normal temperatures below flash point. Do not cut, weld, or pressurize empty container.
<b>Static Discharge</b>	Container may explode in heat of fire.

## **SECTION VI: Accidental Release Measures**

<b>Personal Protection</b>	Wear suitable protective equipment. Eliminate sources and or potential sources of ignition.
<b>Environmental Precautions</b>	Product has very low solubility 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 well ventilated area. Keep 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>
Dioctyl Phthalate	5 mg/m <sup>3</sup> TWA-TLV Not Established STEL-TLV	5 mg/m <sup>3</sup> TWA-PEL Not Established STEL-PEL	5000 mg/m <sup>3</sup>

**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

**Respiratory Protection** Use approved respirator with dual organic vapour / mist and particulate cartridge if vapour concentration exceeds permissible exposure limit

**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:** 0.965 at 20°C (68°F)  
**Vapour Pressure:** <1.00 mm Hg at 20°C, It may be as low as < 0.02 mm Hg at 20°C  
**Vapour Density:** Not available  
**Evaporation Rate:** Not available  
**Boiling Point:** >230°C (>446°F)  
**Pour Point:** -35°C (-31°F)  
**Solubility in Water:** Insoluble  
**pH:** Not available  
**Partitioning Coefficient:** Not available

## **SECTION X: Stability and Reactivity**

**Chemical Stability:** Stable  
**Incompatibility:** Avoid contact with oxidizing agents, reducing agents, alkali metals, alkaline earth metals and ignition source. Iron, zinc and aluminium avoided at high temperatures.  
**Reactivity:** No reactivity  
**Reactivity:** No reactivity  
**Polymerization:** Will not occur  
**Decomposition Products:** Oxides of carbon, phosphorous and chlorine, hydrogen chloride, hydrogen sulphide and dense smoke.



## **SECTION XI: Toxicological Information**

### **Effects of Acute and Chronic Exposure:**

- 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** Irritating to eyes, but will not injure eye tissue.
- Inhalation** May cause respiratory tract and mucous membrane irritation as well as nervous system effects. If product is misted at elevated temperature, high concentration of vapour and/or mist may cause irritation, experienced as nasal discomfort and discharge.
- Ingestion** May cause nervous system effects. Ingestion of large amounts may cause intestinal blockage. If drawn into lungs from swallowing or vomiting, may cause bronchopneumonia or pulmonary edema.
- Irritancy:** Irritating to the eyes. Frequent or prolonged contact may irritate skin. If misted, inhalation of mist may cause irritation.
- Sensitization:** Repeated or prolonged contact may cause sensitization in some individuals.
- Carcinogenicity:** This product contains material that has 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.  
Diocetyl Phthalate (117-81-7): ACGIH A3 – Confirmed animal carcinogen with unknown relevance to humans.
- Reproductive Toxicity:** This product contains materials that have shown adverse reproductive effects in experimental animals. Reproductive studies in rats and mice: after oral administration indications of a fetotoxic effect and disturbances of the reproduction ability occurred.
- Teratogenicity:** Boys of moms highly exposed to phthalates show stunted genitals. The higher the level of phthalates in the mothers during the final months of pregnancy, the less masculine their boys were when examined by paediatricians. (Pittsburgh Post-Gazette 5/27/05).
- Embryotoxicity:** No information is available and no adverse effects are anticipated.
- Mutagenicity:** No information is available and no adverse effects are anticipated.
- Toxicologically Synergistic Products:** 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:**

This product contains materials that are considered to be marine pollutants. 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**

<b>Department of Transport:</b>	Regulated under DOT
<b>TDG – Canada</b>	Regulated under TDG.
<b>DOT/TDG Proper Shipping Name:</b>	Environmentally hazardous substance, liquid, n. o. s. (Contains triaryl phosphates, isopropylated and triphenyl phosphate.)
<b>DOT/TDG Hazard Class:</b>	9
<b>Product Identification Number:</b>	UN3082
<b>Packing Group:</b>	III
<b>DOT/TDG Labels:</b>	<b>Primary:</b> Miscellaneous <b>Subsidiary:</b> Marine Pollutant
<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:**

This is a controlled product under WHMIS.  
D2A: Materials Causing Other Toxic Effects: Very Toxic  
D2B: Materials Causing Other Toxic Effects: Toxic

### **CERCLA:**

Contains chemicals listed on CERCLA (40CFR 302.4). If this product is accidentally spilled, it is subject to special reporting under requirements of the Comprehensive Environmental Response and Liability Act. We recommend you also contact local authorities to determine if there may be other local reporting requirements.  
CAS 117-81-7: 100lb final RQ; 45.4kg final RQ

### **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: **ACUTE, CHRONIC, IMMEDIATE, DELAYED.**

### **SARA Title III Section 313:**

This product does contain more than 1 % of any of the chemical substances listed under SARA Section 313.  
CAS 117-81-7



**RCRA:**

Contains chemicals listed on the **RCRA** (40 CFR 261.33) for hazardous waste.  
CAS 117-81-7: waste number U028

**NPRI:**

Contains chemicals listed in the **NPRI** under Canadian EPA.  
CAS 117-81-7: Part 1A Substances

**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	
*=Chronic	

**Revision Information**

**Prepared by:** Maryn Research

Phone: 1-403-252-2239

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**Revision:** 6.0

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