

PATHFINDER® LUBRICANTS

MATERIAL SAFETY DATA SHEET

WHMIS HAZARD INDEX

Hazardous Materials Identification System	4 – Severe
	3 – Serious
	2 – Moderate
	1 – Slight
	0 – Minimal

WHIMIS RATINGS

Health	0
Flammability	1
Reactivity	0
Personal Protection	b

SECTION 1 – Product Identification and Use

TRADE NAME : RYCON – 1™
PRODUCT USES : Used as anti-wear additive to conventional lube oil
FORMULA : Not Applicable
CAS NUMBER : Not Applicable
CHEMICAL FAMILY : Mixture of various types of uncontrolled petroleum-based hydrocarbon derivatives

PATHFINDER® LUBRICANTS : Petroleum Specialties Group
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SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	CAS #
Synthetic Oil	27178-16-1
Mixed Alkanes, chloro, c22/c40	63449-39-8

SECTION 3 - Physical Data

PHYSICAL STATE :	Liquid
APPEARANCE and ODOUR :	Amber Liquid, Sweetish oil odour
VAPOUR (mm Hg) :	Not Applicable
VAPOUR DENSITY (AIR=1) :	Not Applicable
EVAPORATION RATE :	Not Applicable
BOILING POINT :	240°C
POUR POINT :	-40°C
SOLUBILITY IN WATER :	Insoluble
COEFFICIENT OF WATER / OIL DIST.	Not Applicable

SECTION 4 – Fire and Explosion Data

FLASH POINT (ASTM -92) :	173°C
UPPER FLAMMABILITY LIMIT :	Not Available
LOWER FLAMMABILITY LIMIT :	Not Available
AUTO IGNITION TEMPERATURE :	Not Available
HAZARDOUS COMBUSTION PRODUCTS :	Oxides of carbon, oxides of sulfur, oxides of nitrogen and substances similar to dry cleaning fluid
EXPLOSION DATA :	Stable – No explosion hazard

SECTION 5 - Reactivity Data

CHEMICAL STABILITY :	Stable
INCOMPATIBILITY :	Avoid contact with strong oxidizing agents
REACTIVITY :	No Reactivity
HAZARDOUS POLYMERIZATION :	Will not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS :	Oxides of carbon, oxides of sulfur, oxides of nitrogen and substances similar to dry cleaning fluid

SECTION 6 - Toxicological Properties

- ROUTE OF ENTRY :
 - SKIN CONTACT : No entry into body through skin
 - SKIN ABSORPTION : No evidence of adverse effects from available information. Prolonged contact may cause irritation. No permanent injury.
 - EYE CONTACT : May irritate eyes just like any oil (including cooking oil), but will not injure eye tissue.
 - INHALATION : No inhalation dangers at room temperatures, as there are no vapours. At extreme high temperatures, prolonged inhalation of fumes may be mildly irritating and may cause headaches.
 - INGESTION : No significant hazard. Minimal toxicity. Ingestion of large amounts may cause intestinal obstruction. If drawn into lungs from swallowing or vomiting, may cause broncho-pneumonia or pulmonary edema.
- EFFECTS OF CHRONIC EXPOSURE : No evidence of adverse effects from available information.
- EFFECTS OF ACUTE EXPOSURE : None known. Minimal toxicity.

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| 4. IRRITANCY OF PRODUCT : | May cause slight irritation |
| 5. SENSITIZATION : | Non-sensitizing |
| 6. CARCINOGENICITY : | All petroleum products may contain small amounts of naturally occurring polycyclic aromatic hydrocarbons. Certain species of these polycyclic hydrocarbons have been implicated in the incidence of skin cancer in test animals. This is true of all lubricating and road oils. |
| 7. TERATOGENICITY : | Not available |
| 8. MUTAGENICITY : | Not available |

SECTION 7 - Preventive Measures

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| 1. PERSONAL PROTECTIVE EQUIPMENT | Treat as lubricating oils. Although not required, protective goggles and gloves could be worn. |
| 2. ENGINEERING CONTROLS | Store in areas with other lubricants. General exhaust from that area. Electrical installation should be explosion and fire proof. |
| 3. LEAK AND SPILL PROCEDURE | Remove all sources of ignition. Soak up with absorbent material, mop and place in disposal containers. |
| 4. WASTE DISPOSAL | Do not contaminate any surface or underground water supply. Disposal as for used lubricants by licensed and recognized operator. Follow all Federal, Provincial and Local disposal regulations. |
| 5. HANDLING AND STORAGE PROCEDURES | Handle and store as lubricating oil. |
| 6. SHIPPING | Finished product is not regulated by Transport Canada. Freight Classification 65, petroleum oil. |

SECTION 8 - First Aid

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| 1. SKIN CONTACT : | Wash well with soap and water. Launder clothing prior to re-use. |
| 2. EYE CONTACT : | Flush with clean tepid water for at least fifteen (15) minutes. If irritation persists, consult physician. |
| 3. INHALATION : | If excessive fumes, remove victim to fresh air. If no relief is obtained, consult physician. |
| 4. INGESTION : | Do not induce vomiting. Call physician immediately. |

SECTION 9 - Preparation Of Material

PREPARED BY : Pathfinder® Lubricants
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ORIGINAL PREPARATION DATE : October 4, 1996
REVISION DATE : March 12, 2005

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