



# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

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Version: 4.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : MOPAR Parafull Concentrate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Coolant

#### 1.3. Details of the supplier of the safety data sheet

Viscosity Oil Company  
600 H Joliet Road  
Willowbrook, IL 60527  
T 630-850-4000 - F 630-850-4022

CNH Canada  
1000 71<sup>st</sup> Street East  
Saskatoon, SK S7K 3S5

#### 1.4. Emergency telephone number

Emergency number : (800) 434-9300  
CHEMTREC (24 HOURS)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2A H319  
Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) : Warning  
Hazard statements (GHS) : H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure

Precautionary statements (GHS) : P260 - Do not breathe mist, spray, vapours  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear eye protection, protective gloves  
P301+P312 - If swallowed: Call a doctor if you feel unwell  
P302+P352 - If on skin: Wash with plenty of soap, water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P314 - Get medical advice/attention if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
P330 - Rinse mouth  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P501 - Dispose of contents/container to Collection point

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS)

8.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

8.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
8.18% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Ethylene glycol	(CAS-No.) 107-21-1	89.846	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Potassium hydroxide	(CAS-No.) 1310-58-3	1.51399 - 1.515	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Drink plenty of water. Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : carbon dioxide (CO2), powder, alcohol-resistant foam, water fog.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Under fire conditions closed containers may rupture or explode.
- Reactivity : No dangerous reactions known.

#### 5.3. Advice for firefighters

- Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves. Nitrile gloves. Use splash goggles when eye contact due to splashing is possible.
- Emergency procedures : Avoid contact with skin, eyes and clothing. Stop leak without risks if possible. Ventilate area.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves. Butyl rubber. Nitrile rubber. Use splash goggles when eye contact due to splashing is possible.
- Emergency procedures : Stop leak if safe to do so.

# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Exclude sources of ignition and ventilate the area. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Impound and recover large spill by mixing it with inert granular solids.

### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment. Section 13: disposal information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture.

Incompatible materials : acid, combustible materials.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethylene glycol (107-21-1)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
ACGIH	ACGIH Ceiling (ppm)	39.4 ppm
ACGIH	Remark (ACGIH)	Kidney dam; URT & eye irr
NIOSH	NIOSH REL (ceiling) (ppm)	50 ppm
Potassium hydroxide (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.

Hand protection : nitrile rubber gloves. Butyl rubber.

Eye protection : Chemical goggles or safety glasses. In case of splashing or aerosol production: protective goggles.

Respiratory protection : If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.

Other information : Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : liquid.

Colour : Yellow

Odour : chemical odor

Odour threshold : No data available

pH : 7.9

Melting point : ≈ -37 °C

Freezing point : -37 °C

# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

Boiling point	: 109 °C
Flash point	: 120 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.13
Solubility	: Material highly soluble in water.
Log Pow	: -1.36
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: < 10 cSt @ 20 °C
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

See Section 7.

### 10.6. Hazardous decomposition products

Burning produces irritating, toxic and noxious fumes. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Dermal  
Acute toxicity : Oral: Harmful if swallowed.

MOPAR Parafull Concentrate	
ATE US (oral)	542.7554154781 mg/kg bodyweight
Ethylene glycol (107-21-1)	
LD50 oral rat	500 mg/kg
LD50 dermal rat	> 3500 mg/kg mouse
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h
ATE US (oral)	500 mg/kg bodyweight
Potassium hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg bodyweight
ATE US (oral)	333 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified

# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (kidneys) through prolonged or repeated exposure.

Ethylene glycol (107-21-1)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day kidney

Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ethylene glycol (107-21-1)	
LC50 fish 1	72860 mg/l Pimephales promelas
EC50 Daphnia 1	> 100 mg/l
NOEC chronic fish	15380 mg/l Pimephales promelas
NOEC chronic crustacea	8590 mg/l Ceriodaphnia sp.

### 12.2. Persistence and degradability

Ethylene glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % 28 d

### 12.3. Bioaccumulative potential

MOPAR Parafull Concentrate	
Log Kow	-1.36

Ethylene glycol (107-21-1)	
Log Pow	- 1.36
Bioaccumulative potential	Not expected to bioaccumulate.

### 12.4. Mobility in soil

MOPAR Parafull Concentrate	
Ecology - soil	No additional information available.

### 12.5. Other adverse effects

Other information : No additional information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Transportation of Dangerous Goods

Not regulated.

### Transport by sea

Not regulated.

### Air transport

Not regulated.

# MOPAR Parafull Concentrate

## Safety Data Sheet

Canada HPR

### SECTION 15: Regulatory information

#### CANADA

**Ethylene glycol (107-21-1)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

**Potassium hydroxide (1310-58-3)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

### SECTION 16: Other information

Revision date : 06/15/2016

Data sources : Canadian Centre for Occupational Health and Safety. Accessed at: [http://www.ccohs.ca/oshanswers/legisl/whmis\\_classifi.html](http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html).  
European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>.  
Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.  
National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.  
OSHA 29CFR 1910.1200 Hazard Communication Standard.

Full text of H-statements:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
ATE	Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	TWA: Time Weighted Average

Indication of changes:  
Regulatory information.

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