



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **MOPAR CONCENTRATE ANTIFREEZE/COOLANT 10 YEAR/150,000 MILE -EMBITTERED**

Synonyms

- 68163848AA; 68163848AB; 68163848GA; 68163848GB; 68175336AA; 68175336AB; 68175338AA; 68175338AB

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Antifreeze/Coolant

Restrictions on use

- No data available

Details of the supplier of the safety data sheet

Manufacturer

- Mopar (FCA US LLC Service & Customer Care Division)
26311 Lawrence Ave.
Center Line, MI 48015
United States

MoparSDS@fcagroup.com

Telephone (General) • 1-800-84-Mopar

Emergency telephone number

Manufacturer

- 248-512-8002

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Skin Corrosion/Irritation 2
- Serious Eye Damage/Eye Irritation 2
- Specific Target Organ Toxicity Single Exposure 1
- Specific Target Organ Toxicity Single Exposure 3
- Specific Target Organ Toxicity Repeated Exposure 2
- Acute Toxicity (Oral) 4

Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- H302 Harmful if swallowed
 - H315 Causes skin irritation
 - H319 Causes serious eye irritation
 - H370 Causes damage to organs
 - H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention**
- P264 Wash affected areas thoroughly after handling.
 - P280 Wear eye protection/face/hand protection.
 - P260 Do not breathe mist, spray, vapors
 - P270 Do not eat, drink, or smoke when using this product
- Response**
- P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
 - P330 Rinse mouth.
 - P302+P352: IF ON SKIN: Wash with plenty of water.
 - P332 + P313 If skin irritation occurs: Get medical advice/attention.
 - P362 + P364 Take off contaminated clothing and wash before reuse.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 - P337 + P313 If eye irritation persists: Get medical advice/ attention.
 - P308 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting.
 - P314 Get medical advice/attention if you feel unwell

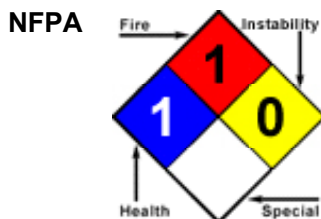
- Storage/Disposal**
- P102 Keep out of reach of children.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

Other hazards

OSHA HCS 2012

- Data not available.

Other information



Section 3 - Composition/Information on Ingredients

Substances

Mixtures

Composition			
Chemical Name	Identifiers	%	Comments
Ethylene Glycol	CAS:107-21-1	88% TO 95%	Hazard Code: A PEL/TLV: Ceiling: 100mg/m [Aerosol only] Hazard: Respiratory irritant. Ingestion may produce liver, brain and kidney damage.

Diethylene Glycol	CAS:111-46-6	< 5%	Hazard Code: A Hazard: Ingestion may produce kidney damage.
Hydrated inorganic acid, organic acid salts		< 5%	CAS No.: proprietary Hazard: None noted.
Water	CAS:7732-18-5	< 4%	Hazard: None noted.

Proprietary items on this SDS are designated as trade secrets. Requests for disclosure of trade secret information will be made in accordance with the provisions contained in OSHA 29 CFR 1910.1200(i).

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Immediately remove victim to fresh air. If victim has stopped breathing give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Skin

- Immediately flush skin with plenty of water while removing contaminated clothing.

Eye

- Immediately flush eyes with plenty of cool water for at least 15 minutes. Do NOT permit victim to rub eyes. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion

- If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do NOT give sodium bicarbonate, fruit juices or vinegar. NEVER give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or Poison Control Center. CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

Most important symptoms and effects, both acute and delayed

- The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- No data available.

Other information

- No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

- Use water spray, dry chemical, foam or carbon dioxide.

Unsuitable Extinguishing Media

- No data available

Firefighting Procedures

- Individuals should perform only those firefighting procedures for which they have been trained. Use water to keep fire-exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire and diluted spills to noncombustible proportions(see warning on water spray on hot glycol below.)

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- No data available

Hazardous Combustion Products

- No data available

Advice for firefighters

- To prevent possible storage container rupture, do not permit to freeze. Incompatible

with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.
- Emergency Procedures**
- No data available

Environmental precautions

- The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

- For disposal see section 13.

Section 7 - Handling and Storage

Precautions for safe handling

- Handling**
- - Do not expose children and pets to this material.
 - - After handling product, wash thoroughly with soap and water before drinking, eating, or smoking.
 - - Keep away from open flames.

Conditions for safe storage, including any incompatibilities

- Storage**
- - To prevent possible storage container rupture, do not permit to freeze.
- Incompatible Materials or Ignition Sources**
- Incompatible with strong acids, oxidizers, bases and chromium trioxide, potassium permanganate, and sodium peroxide.

Specific end use(s)

- The identified uses for this product are detailed in section 1.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines		
	Result	OSHA Vacated
Ethylene Glycol (107-21-1)	Ceilings	100 mg/m ³ Ceiling (aerosol only)
		50 ppm Ceiling; 125 mg/m ³ Ceiling

Exposure Control Notations

ACGIH

- Ethylene Glycol (107-21-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)

Exposure controls

Engineering Measures/Controls

- Handle in the presence of adequate ventilation. Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure criteria, including enclosures and local exhaust ventilation.

Personal Protective Equipment

Pictograms**Respiratory**

- Where exposure is likely to exceed acceptable criteria and engineering controls are not feasible, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air and in accordance with OSHA (29 CFR 1910.134)

Eye/Face

- Wear safety glasses meeting the specifications of ANSI Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specification of ANSI Standard Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

Hands

- Wear gloves which are impervious to the product for the duration of exposure if there is potential for skin contact.

Skin/Body

- Wear protective clothing which is impervious to the product for the duration of exposure if there is potential for skin contact.

Environmental Exposure Controls

- No data available

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Clear, slightly viscous.
Color	Purple dyed.	Odor	No characteristic odor.
Taste	No data available	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	No data available	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	> 149 C(> 300.2 F)	Melting Point	< -15 C(< 5 F) (freezing point)
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	7.9 (50v/v%)	Specific Gravity/Relative Density	No data available
Density	1.12 g/cm3	Bulk Density	No data available
Water Solubility	Infinite miscibility	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	0.05 mmHg (torr) @ 20 C(68 F) estimated	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
VOC (Vol.)	No data available	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	124 C(255.2 F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	No data available	Burning Time	No data available
Flame Height	No data available	Flame Extension	No data available
Ignition Distance	No data available	Flame Duration	No data available

Burning Rate Test	No data available	Flammability (solid, gas)	No data available
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	-0.3 log Kow
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

Section 10: Stability and Reactivity

Reactivity

- Hazardous Polymerization: Not likely to occur
Conditions and Materials to Avoid: Avoid concentrated strong acids, oxidizing agents and bases. Do not expose to open flame.

Chemical stability

- Generally stable.

Possibility of hazardous reactions

- No data available

Conditions to avoid

- Avoid heat, flames and other sources of ignition. Do not expose to open flame.

Incompatible materials

- Avoid concentrated strong acids, oxidizing agents and bases.

Hazardous decomposition products

- If pyrolyzed, thermal decomposition products of residue may include C, CO, CO₂, H₂O, NH₃, organic vapors and nitrogen-containing.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Ethylene Glycol (88% TO 95%)	107-21-1	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 5500 mg/kg; Ingestion/Oral-Rat LD50 • 4700 mg/kg; Ingestion/Oral-Human LDLo • 1560 mg/kg • Comments: The lowest dose reported to produce death in humans for a person weighing 150 pounds. This would be equivalent to drinking about three fluid ounces of pure ethylene glycol in a short period of time.; Skin-Rabbit LD50 • 10600 mg/kg
Diethylene Glycol (< 5%)	111-46-6	Acute Toxicity: Ingestion/Oral-Mouse LD50 • 23700 mg/kg; Ingestion/Oral-Rat LD50 • 12600 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Data lacking
Skin sensitization	OSHA HCS 2012 • Data lacking

STOT-RE	OSHA HCS 2012 • Data lacking
STOT-SE	OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)

- Breathing excessive levels of the vapor or mist can irritate the respiratory tract. Excessive vapor concentrations of the major component (ethylene glycol), as might be generated during heating of this material, have occasionally been reported to cause adverse effects on the blood-forming system and the nervous system.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- Based on the pH and the irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation of the skin.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Based on the pH and irritation potential of this mixture's constituents, the mist or liquid can be expected to cause mild to moderate irritation or inflammation of the eyes.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- The acute oral toxicities of the main components of this mixture are as seen in the toxicological effects table above.

Chronic (Delayed)

- No data available

Other

Chronic (Delayed)

- No chronic or delayed effects have been identified.

Carcinogenic Effects

- IARC: No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12 - Ecological Information

Toxicity

MOPAR CONCENTRATE ANTIFREEZE/COOLANT 10 YEAR/150,000 MILE -EMBITTERED					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
18500 mg/L	Fish: Oncorhynchus mykiss (rainbow trout)	96 Hour(s)	LC50	NDA	Ethylene Glycol (107-21-1)
75200 mg/L	Fish: Pimephales promelas (fathead minnow)	96 Hour(s)	LC50	NDA	Diethylene Glycol (111-46-6)

- Ecological information of the product: Data not available.

Persistence and degradability

- Degradation half life Readily biodegradable.

Bioaccumulative potential

- Bioaccumulative potential Bioconcentration potential is low.
Comments to bioaccumulation Log Pow: -0.30.

Mobility in Soil

- Mobility The product is miscible with water. May spread in water systems.

Results of PBT and vPvB assessment

- PBT assessment results This substance is not classified as PBT or vPvB.

Other adverse effects

- Other adverse effects / Remarks None known.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Disposal should be made in accordance with applicable federal, state and local regulations. All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with good engineering practices. Avoid land filling of liquids. Reclaim where possible.

Packaging waste

- No data available

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3082	Environmentally Hazardous Substance Liquid n.o.s. (ethylene glycol), 9, UN3082, III	9	III	NDA
TDG	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
ADN	NDA	NDA	NDA	NDA	NDA
ADR/RID	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

Special precautions for user

- No data available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available.

Other information

- Marine pollutant: No
Poison Inhalation Hazard: No.
- DOT • Transport hazard class - DOT Classification (Bulk) : Class 9 miscellaneous
DOT Classification (Non-bulk) : Not regulated.
- IMO/IMDG • Transport hazard class - IMDG Code (Non-bulk) : Not regulated.
- IATA/ICAO • Transport hazard class - IATA (Non-bulk) : Not regulated.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • **SARA Hazard Categories (as defined in Section 311/312)**

Health: Immediate (Acute) and Delayed (Chronic)

Physical: None

The product contains greater than 88% ethylene glycol (CAS# 107-21-1) which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

State Right To Know			
Component	CAS	NJ	PA
Diethylene Glycol	111-46-6	No	Yes
Ethylene Glycol	107-21-1	Yes	Yes
Water	7732-18-5	No	No

Inventory				
Component	CAS	Canada DSL	EU EINECS	TSCA
Diethylene Glycol	111-46-6	Yes	Yes	Yes
Ethylene Glycol	107-21-1	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes

Canada**Labor****Canada - WHMIS - Classifications of Substances**

• Water	7732-18-5	Uncontrolled product according to WHMIS classification criteria
• Ethylene Glycol	107-21-1	D1B, D2A
• Diethylene Glycol	111-46-6	D1B

Canada - WHMIS - Ingredient Disclosure List

• Water	7732-18-5	Not Listed
• Ethylene Glycol	107-21-1	1 %
• Diethylene Glycol	111-46-6	Not Listed

Environment**Canada - CEPA - Priority Substances List**

• Water	7732-18-5	Not Listed
• Ethylene Glycol	107-21-1	Priority Substance List 2 (substance not considered toxic)
• Diethylene Glycol	111-46-6	Not Listed

United States**Environment****U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Water	7732-18-5	Not Listed
• Ethylene Glycol	107-21-1	
• Diethylene Glycol	111-46-6	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Water	7732-18-5	Not Listed
• Ethylene Glycol	107-21-1	5000 lb final RQ; 2270 kg final RQ

• Diethylene Glycol	111-46-6	Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
• Water	7732-18-5	Not Listed
• Ethylene Glycol	107-21-1	1.0 % de minimis concentration
• Diethylene Glycol	111-46-6	Not Listed

Other Information

- Toxic Substance Control Act
This product is a mixture : therefore, it is not listed in the TSCA Inventory of Chemical Substances. All of the components of the mixture are listed in the TSCA Inventory of Chemical Substances.

California Proposition 65

This product does not contain any substances currently listed under California Proposition 65.

Section 16 - Other Information

Last Revision Date	• 30/April/2015
Preparation Date	• 07/April/2015
Disclaimer/Statement of Liability	• No data available