



Safety Data Sheet

Section 1: Identification

Product identifier

- Product Name** • Mopar Electric Steering Pump Fluid
Synonyms • 68088485AA; 68088485AB

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

- Recommended use** • Lubricant
Restrictions on use • No uses advised against identified.

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** • Harmful to aquatic life with long lasting effects.
May be fatal if swallowed and enters airways.

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • H304 May be fatal if swallowed and enters airways
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention • P273 Avoid release to the environment.

Response • P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 Do NOT induce vomiting.

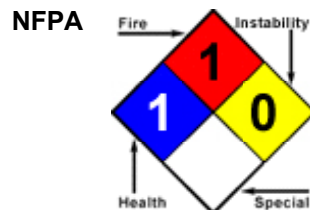
Storage/Disposal • P501 Dispose of contents/container in accordance with local/regional/national/international regulation

Supplemental information • Contains olefin derivative, ethoxylated Amine. May produce an allergic reaction.

HCS 2012 Other Information • Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other hazards**OSHA HCS 2012**

- By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

Other information**Section 3 - Composition/Information on Ingredients****Substances****Mixtures****Composition**

| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
|-----------------------|------------------------------------|------------------|--|---|----------|
| Alkoxysulfolane | | 0.1% TO 1% | | OSHA HCS 2012: Aquatic Chronic 2; H411 | NDA |
| olefin derivative | | 0.1% TO 1% | | OSHA HCS 2012: Skin Sens. 1; H317 | NDA |
| Base oil, low viscous | CAS:72623-86-0 EINECS:276-737-9 | 50% TO 99% | Ingestion/Oral-Rat LD50 • >2001 mg/kg Skin-Rabbit LD50 • >2001 mg/kg Inhalation-Rat LC50 • >5.53 mg/L | OSHA HCS 2012: | NDA |
| Base oil, low viscous | CAS:64742-79-6 EINECS:265-182-8 | 1% TO 5% | | OSHA HCS 2012: Asp. Tox. 1; H304, Skin Irrit. 2; H315, Aquatic Chronic 2; H411 | NDA |
| ethoxylated Amine | CAS:61791-44-4 EINECS:263-177-5 | 0.1% TO 1% | Ingestion/Oral-Rat LD50 • 1350 mg/kg | OSHA HCS 2012: Skin Corr. 1C; H314, Eye Dam. 1; H318, Met. Corr. 1; H290, Aquatic Acute 1; H400, Skin Sens. 1; H317 | NDA |

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation** ● Supply fresh air; consult doctor in case of symptoms.
- Skin** ● Wash skin with soap and water.
- Eye** ● Promptly wash eyes with plenty of water while lifting the eye lids.
- Ingestion** ● Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed

- May cause skin and eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician ● No data available.

Antidotes ● No data available.

Other information

- Get medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media ● CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added.

Unsuitable Extinguishing Media ● Do not use water with a full water jet.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards ● No data available

Hazardous Combustion Products ● During fire, gases hazardous to health may be formed.

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions ● In case of spills, beware of slippery floors and surfaces.

Emergency Procedures ● No data available

Environmental precautions

- Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).

Methods and material for containment and cleaning up

Containment/Clean-up Measures ● Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

Reference to other sections

- See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

Conditions for safe storage, including any incompatibilities

Storage

- Store locked up. Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- Name: Base oil, low viscous - Inhalable fraction. Type: TWA. Exposure Limit Values: 5 mg/m³. Name: Base oil, low viscous - Mist. Type: PEL. Exposure Limit Values: 5 mg/m³. Name: Base oil, low viscous - Mist. Type: TWA. Exposure Limit Values: 5 mg/m³.

Exposure controls

Engineering

Measures/Controls

- No data available

Personal Protective Equipment

Respiratory

- In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.

Eye/Face

- Safety glasses (EN 166) recommended during refilling.

Skin/Body

- Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

General Industrial Hygiene Considerations

- Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Exposure Controls

- No data available

Additional Protection Measures

- Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

Other Information

- Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

| Material Description | | | |
|--|---|--|-------------------|
| Physical Form | Liquid | Appearance/Description | No data available |
| Color | Green. | Odor | Characteristic |
| 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 | Liquid |
| General Properties | | | |
| Boiling Point | No data available | Melting Point | No data available |
| Decomposition Temperature | No data available | Heat of Decomposition | No data available |
| pH | No data available | Specific Gravity/Relative Density | No data available |
| Density | 0.85 g/mL @ 15 C(59 F) | Bulk Density | No data available |
| Water Solubility | No data available | Solvent Solubility | No data available |
| Viscosity | 18.9 Centistoke (cSt, cS) or mm ² /sec @ 40 C(104 F) | Explosive Properties | No data available |
| Oxidizing Properties: | No data available | | |
| Volatility | | | |
| Vapor Pressure | No data available | 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 | 145 C(293 F) | UEL | No data available |
| LEL | No data available | Autoignition | No data available |
| Self-Accelerating Decomposition Temperature (SADT) | No data available | Heat of Combustion (ΔH_c) | 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 | Flammability (solid, gas) | No data available |
| Environmental | | | |
| Half-Life | No data available | Octanol/Water Partition coefficient | No data available |
| Coefficient of water/oil distribution | No data available | Bioaccumulation Factor | No data available |
| Bioconcentration Factor | No data available | Biochemical Oxygen Demand BOD/BOD ₅ | No data available |
| Chemical Oxygen Demand | No data available | Persistence | No data available |
| Degradation | No data available | | |

Section 10: Stability and Reactivity

Reactivity

- Stable under normal conditions.

Chemical stability

- No data available

Possibility of hazardous reactions

- Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

- Avoid heat or contamination.

Incompatible materials

- Keep away from strong acids, strong bases, and oxidizing agents.

Hazardous decomposition products

- Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Section 11 - Toxicological Information

Information on toxicological effects

| Components | | |
|------------------------------------|------------|--|
| Base oil, low viscous (50% TO 99%) | 72623-86-0 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >2001 mg/kg; Inhalation-Rat LC50 • >5.53 mg/L; Skin-Rabbit LD50 • >2001 mg/kg |
| ethoxylated Amine (0.1% TO 1%) | 61791-44-4 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 1350 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) • Not classified for acute toxicity based on available data.

Chronic (Delayed) • No data available

Skin

Acute (Immediate) • No data available

Chronic (Delayed) • No data available

Eye

Acute (Immediate) • No data available

Chronic (Delayed) • No data available

Ingestion

Acute (Immediate) • No data available

Chronic (Delayed) • No data available

Reproductive Effects

- No teratogenic components.

Section 12 - Ecological Information

Toxicity

| Mopar Electric Steering Pump Fluid | | | | | |
|------------------------------------|------------------|------------|---------|---------------------|-------------------|
| Dosage | Species | Duration | Results | Exposure Conditions | Comments |
| <1 mg/L | Fish: NDA | 96 Hour(s) | LC50 | NDA | Ethoxylated Amine |
| <1 mg/L | Fish: Water Flea | 48 Hour(s) | NDA | NDA | Ethoxylated Amine |

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

- Harmful to aquatic life with long lasting effects.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose in accordance with all applicable regulations. Discharge, treatment, or disposal may be subject to national, state, or local laws.

Packaging waste

- No data available

Section 14 - Transport Information

| | UN number | UN proper shipping name | Transport hazard class (es) | Packing group | Environmental hazards |
|-----------|-----------|-------------------------|-----------------------------|---------------|-----------------------|
| DOT | NDA | NDA | NDA | NDA | 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

- DOT • Not regulated as hazardous material by DOT.
- IMO/IMDG • Not regulated as a dangerous good under IMDG.
- IATA/ICAO • Not regulated as a dangerous good under IATA.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Base oil, low viscous - 200,000 kg (Threshold Planning Quantity)

| Inventory | | | | |
|-----------------------|------------|------------|-----------|------|
| Component | CAS | Canada DSL | EU EINECS | TSCA |
| Base oil, low viscous | 72623-86-0 | Yes | Yes | Yes |
| Base oil, low viscous | 64742-79-6 | Yes | Yes | Yes |
| ethoxylated Amine | 61791-44-4 | Yes | Yes | Yes |

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

| | | |
|-------------------------|------------|---|
| • Base oil, low viscous | 72623-86-0 | Uncontrolled product according to WHMIS classification criteria |
| • Base oil, low viscous | 64742-79-6 | Not Listed |
| • ethoxylated Amine | 61791-44-4 | Not Listed |

Section 16 - Other Information**Relevant Phrases (code & full text)**

H304 - May be fatal if swallowed and enters airways
H412 - Harmful to aquatic life with long lasting effects
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Training advice

- Follow training instructions when handling this material.

Last Revision Date

- 05/March/2015

Preparation Date

- 20/February/2015

Other Information

- The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Disclaimer/Statement of Liability

- The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.