

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • **MOPAR LIMITED SLIP ADDITIVE**

Synonyms • 04318060AB; 04318060AC; 04318060AD

Product Description • Lubricant

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

Recommended use • Lubricant

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

- Acute aquatic toxicity Category 1
- Serious eye damage/eye irritation Category 1
- Skin corrosion/irritation Category 1B
- Acute Toxicity – Oral Category 4

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** ● H302 Harmful if swallowed
 H314 Causes severe skin burns and eye damage
 H318 Causes serious eye damage
 H400 Very toxic to aquatic life

Precautionary statements

- Prevention** ● P260 Do not breathe dusts or mists.
 P264 Wash affected areas thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P270 Do not eat, drink or smoke when using this product
- Response** ● P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or physician
 P330 Rinse mouth.
 P331 - Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P304 + P340 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P391 Collect spillage.

- Storage/Disposal** ● P102 KEEP OUT OF REACH OF CHILDREN
 P405 Store locked up.
 P501 Dispose of contents and/or container in accordance with local, regional, state, national, and international regulation

Other hazards

OSHA HCS 2012

- No data available

Section 3 - Composition/Information on Ingredients

Substances

Mixtures

This product is a mixture. Health hazard information is based on its ingredients.

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
9-Octadecenylamine, (Z)-	CAS:112-90-3 EINECS:204-015-5	7% TO 10%		OSHA HCS 2012: Acute Tox. 3 (H301), Skin Corr. 1B (H314), Aquatic Acute 1 (H400)	NDA
9-Octadecenylamine, (Z)-	CAS:112-90-3 EINECS:204-015-5	5% TO 7%		OSHA HCS 2012: Acute Tox. 3 (H301), Aquatic Acute 1 (H400)	Neutralised
Phosphoric acid, bis(2-ethylhexyl) ester	CAS:298-07-7 EINECS:206-056-4	3% TO 5%		OSHA HCS 2012: Acute Tox. 4 (H302), Skin Corr. 1C (H314)	NDA
Phosphoric acid, mono(2-ethylhexyl) ester	CAS:1070-03-7 EINECS:213-967-0	3% TO 5%		OSHA HCS 2012: Acute Tox. 4 (H312), Skin Corr. 1B (H314)	NDA

Highly refined base oil	65% TO 70%	OSHA HCS 2012:	NDA
-------------------------	---------------	----------------	-----

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

Section 4: First-Aid Measures

Description of first aid measures

- | | |
|-------------------|---|
| Inhalation | <ul style="list-style-type: none"> Move to fresh air. |
| Skin | <ul style="list-style-type: none"> Get medical attention immediately. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| Eye | <ul style="list-style-type: none"> Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention immediately. |
| Ingestion | <ul style="list-style-type: none"> Do not induce vomiting without medical advice. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician. |

Most important symptoms and effects, both acute and delayed

- Gastrointestinal discomfort. Causes burns, blistering.

Indication of any immediate medical attention and special treatment needed

- | | |
|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> Treat symptomatically. |
|---------------------------|--|

Other information

- Do not get in eyes, on skin, or on clothing. Immediate medical attention is required. Protection of First-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Section 5: Fire-Fighting Measures

Extinguishing media

- | | |
|-------------------------------------|---|
| Suitable Extinguishing Media | <ul style="list-style-type: none"> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use CO₂, dry chemical, or foam. Use water to cool fire-exposed containers. |
|-------------------------------------|---|

- | | |
|---------------------------------------|--|
| Unsuitable Extinguishing Media | <ul style="list-style-type: none"> Do not use a solid water stream as it may scatter and spread fire. |
|---------------------------------------|--|

- | | |
|--------------------------------|--|
| Firefighting Procedures | <ul style="list-style-type: none"> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |
|--------------------------------|--|

Special hazards arising from the substance or mixture

- | | |
|---|--|
| Unusual Fire and Explosion Hazards | <ul style="list-style-type: none"> Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). In the event of fire and/or explosion do not breathe fumes. Combustible material. |
|---|--|

- | | |
|--------------------------------------|--|
| Hazardous Combustion Products | <ul style="list-style-type: none"> Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide. |
|--------------------------------------|--|

Advice for firefighters

- No data available

Other information

- Water runoff can cause environmental damage.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas.

Emergency Procedures

- Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions

- Do NOT wash away into sewer. Do not discharge into drains or rivers. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Dike to collect large liquid spills.

Other Information

- Advice for non-emergency personnel: Evacuate personnel to safe areas. Material can create slippery conditions. Advice for emergency responders" For personal protection see section 8. Refer to protective measures listed in Sections 7 and 8.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Ensure adequate ventilation. Do not eat, drink, or smoke when using this product. Handle in accordance with good industrial hygiene and safety precautions. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage

- Keep container/package tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. KEEP OUT OF REACH OF CHILDREN.

Incompatible Materials or Ignition Sources

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

Specific end use(s)

- Lubricant

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

Engineering Measures/Controls

- Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Pictograms



Respiratory

- No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Eye/Face

- Tightly fitting safety goggles. Eye protection must conform to standard EN 166.

Hands

- Protective gloves complying with EN 374. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

Skin/Body**Thermal hazards****General Industrial Hygiene Considerations****Environmental Exposure Controls**

- Impervious clothing. Impervious gloves. Boots. Chemical resistant apron.
- None under normal use conditions.
- Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Provide regular cleaning of equipment, work area and clothing. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.
- Do not allow material to contaminate ground water system.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear
Color	Amber	Odor	Bland
Taste	No data available	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	Not relevant	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	> 232 C(> 449.6 F)	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	No data available	Bulk Density	No data available
Water Solubility	0 % Insoluble	Solvent Solubility	No data available
Viscosity	No data available	Explosive Properties	Not applicable.
Oxidizing Properties:	Not applicable.		
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	196 C(384.8 F) COC (Cleveland Open Cup)	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	Not applicable
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

- None under normal use conditions.

Chemical stability

- Stable under normal conditions.

Possibility of hazardous reactions

- None under normal conditions.

Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

- Strong oxidizing agents, Strong acids, Strong bases.

Hazardous decomposition products

- Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Phosphoric acid, bis(2-ethylhexyl) ester (3% TO 5%)	298-07-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4940 µL/kg; Skin-Rabbit LD50 • 1250 µL/kg
Phosphoric acid, mono(2-ethylhexyl) ester (3% TO 5%)	1070-03-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3450 mg/kg; Behavioral:Somnolence (general depressed activity); Behavioral:Food intake (animal); Lungs, Thorax, or Respiration:Acute pulmonary edema
Highly refined base oil (65% TO 70%)		Acute Toxicity: Ingestion/Oral-Rat LD50 • >2000 mg/kg; Skin-Rat LD50 • >2000 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

Target Organs

- Single exposure: None known. Repeated exposure: none known.

Route(s) of entry/exposure

- Inhalation: None known. Eye contact: May result in permanent damage including blindness. Skin contact: Corrosive. Ingestion: Harmful if swallowed; Ingestion causes burns of the upper digestive and respiratory tracts.

Potential Health Effects**Inhalation****Acute (Immediate)**

- None known.

Chronic (Delayed)

- No data available

Skin**Acute (Immediate)**

- Corrosive. Causes burns.

Chronic (Delayed)

- No data available

Eye**Acute (Immediate)**

- May result in permanent damage including blindness.

Chronic (Delayed)

- No data available

Ingestion**Acute (Immediate)**

- Harmful if swallowed.

Chronic (Delayed)

- No data available

Mutagenic Effects

- None known.

Carcinogenic Effects

- None known.

Reproductive Effects

- None known.

Other information

- Repeated Dose Toxicity: None known. Aspiration hazard: None known.

Section 12 - Ecological Information**Toxicity**

MOPAR LIMITED SLIP ADDITIVE					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
0.1-1 mg/L	Fish: Brachydaniorerio	96 Hour (s)	LC50	NDA	(Z)-octadec-9-enylamine and Neutralized (Z)-octadec-9-enylamine
20 mg/L	Fish: Oncorhynchusmykiss	96 Hour (s)	LC50	NDA	Bis(2-ethylhexyl) hydrogen phosphate
80.3 mg/L	Water Flea: Daphnia magna	48 Hour (s)	NDA	NDA	NDA

Persistence and degradability

- The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Results of PBT and vPvB assessment

- This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects

- None known.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of as hazardous waste in compliance with local and national regulations.

Packaging waste

- Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other Information

- According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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	UN1760	CORROSIVE LIQUID, N.O.S. ((Z)-OCTADEC-9-ENYLAMINE, BIS(2-ETHYLHEXYL)	8	II	NDA
ADN	NDA	NDA	NDA	NDA	NDA
ADR/RID	UN1760	CORROSIVE LIQUID, N.O.S. ((Z)-OCTADEC-9-ENYLAMINE, BIS(2-ETHYLHEXYL)	8	II	NDA
IATA/ICAO	UN1760	CORROSIVE LIQUID, N.O.S. ((Z)-OCTADEC-9-ENYLAMINE, BIS(2-ETHYLHEXYL)	8	II	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

Section 15 - Regulatory Information

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

SARA Hazard Classifications

- No data available

State Right To Know		
Component	CAS	NJ
9-Octadecenylamine, (Z)-	112-90-3	No
9-Octadecenylamine, (Z)-	112-90-3	No

Phosphoric acid, bis (2-ethylhexyl) ester	298-07-7	Yes
Phosphoric acid, mono(2-ethylhexyl) ester	1070-03-7	No

Inventory				
Component	CAS	Canada DSL	EU EINECS	TSCA
9-Octadecenylamine, (Z)-	112-90-3	Yes	Yes	Yes
9-Octadecenylamine, (Z)-	112-90-3	Yes	Yes	Yes
Phosphoric acid, bis (2-ethylhexyl) ester	298-07-7	Yes	Yes	Yes
Phosphoric acid, mono(2-ethylhexyl) ester	1070-03-7	Yes	Yes	Yes

Canada

Labor

Canada - WHMIS - Ingredient Disclosure List

• 9-Octadecenylamine, (Z)-	112-90-3	Not Listed
• 9-Octadecenylamine, (Z)-	112-90-3	Not Listed
• Phosphoric acid, bis(2-ethylhexyl) ester	298-07-7	1 %
• Phosphoric acid, mono(2-ethylhexyl) ester	1070-03-7	Not Listed

Other Information

- The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006) Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009. Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990. Regulation on classification, labeling, of hazardous chemicals (2002 changing 2005. Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009. Workplace exposure limits (EH40).

Section 16 - Other Information

Last Revision Date

- 08/April/2015

Preparation Date

- 10/November/2014

Disclaimer/Statement of Liability

- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

