



SAFETY DATA SHEET

Issue Date 01-27-2020

Revision Date 01-27-2020

Version 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: LIMITED-SLIP CONCENTRATE

Other means of identification

Common Name: 0149

Synonyms None

Product Categories Lubricant, Automotive

Recommended use of the chemical and restrictions on use

Sale and Use Restrictions Not applicable

Recommended Use Restricted to professional users.

Uses advised against Consumer use

Details of the supplier of the safety data sheet

Supplier Address

MOC PRODUCTS CO., INC.

12306 Montague Street

Pacoima, CA 91331

Emergency telephone number

Company Phone Number MOC PRODUCTS CO., INC. (818) 794-3500

Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION


Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
---------------------------	------------

Label elements

Emergency Overview

Warning			
Hazard statements	Causes skin irritation		
			
Appearance	Oil	Physical state	Liquid
		Odor	Petroleum, Mild

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

Store in a well-ventilated place

Hazards not otherwise classified (HNOC)

Other information

- Very toxic to aquatic life with long lasting effects
 - Very toxic to aquatic life
- 60.3 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
9-Octadecene-1-Amine, (Z)-	112-90-3	15-20	*
Bis(2-ethyhexyl) hydrogen phosphate	298-07-7	5-10	*
2-Ethyhexyl dihydrogen phosphate	1070-03-7	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Skin contact	Rinse skin with water/shower. Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. Keep at rest position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. It may be dangerous to the person providing first aid to give mouth-to-mouth resuscitation. Call a physician or Poison Control Center.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Continue to rinse for at least ten minutes. Get medical attention.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Move to fresh air. Keep at rest position comfortable for breathing. Maintain an open airway. Never give anything by mouth to an unconscious person. Remove dentures, if any. If the material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if exposed person feels sick as vomiting may be dangerous. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical treatment. DO NOT induce vomiting unless directed to do so by a physician. If unconscious, place in recovery position and seek medical attention immediately.
Notes to Physician	Symptoms may be delayed. Keep under medical supervision for at least 48 hours.

Most important symptoms and effects, both acute and delayed

Symptoms Skin irritation, Redness. Eye irritation: redness, stinging and tearing.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider No action shall be taken involving any personal risk or without suitable training. If it is suspected that vapors are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Avoid contact with skin.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO₂.

Small Fire Dry chemical or CO₂.

Large Fire Water spray or fog.

Explosive properties: In a fire or if heated, a pressure increase will occur and container may burst.

Specific hazards arising from the chemical

May be ignited by heat, sparks or flames. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products Hydrocarbons, Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Phosphorus oxides.

Specific methods:

Sensitivity to Mechanical Impact No Data Available.

Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Special firefighting procedures:

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Do not allow run-off from fire-fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions: No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Avoid breathing vapors or mists. Ensure adequate ventilation. Use personal protective equipment.

For emergency responders Use personal protection recommended in Section 8. Remove all sources of ignition.

Environmental precautions

Environmental precautions: Prevent further leakage or spillage. Prevent product from entering drains. Prevent runoff to sewers, streams or other bodies of water. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike to collect large liquid spills.

Methods for clean-up: Clean-up methods - small spillage: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use only non-sparking tools. Dispose of in accordance with federal, state and local regulations. Clean-up methods - large spillage: Stop spill at source. Dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling: Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors or mists. Do not ingest. Keep containers tightly closed in a cool, well-ventilated place. Keep only in original container. Do not store in open or unlabeled containers. Empty containers retain product residue and can be hazardous. Do not reuse empty containers.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Ensure adequate ventilation. Eye wash and safety shower should be easily accessible.

Materials to avoid: Strong oxidizing agents, Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies:

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
9-Octadecene-1-Amine, (Z)- 112-90-3	-	-	-
Bis(2-ethyhexyl) hydrogen phosphate 298-07-7	-	-	-
2-Ethyhexyl dihydrogen phosphate 1070-03-7	-	-	-

Appropriate engineering controls

Engineering measures:

Provide adequate ventilation. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear protective nitrile rubber gloves. Wear suitable protective clothing. Additional body garments should be used based on task being performed: (consult with the specific manufacturer to confirm performance).

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protective equipment as required. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Petroleum, Mild
Appearance	Oil	Odor threshold	No Data Available
Color	Yellow, Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available . / .	
Flash point	>= 125 °C / 257 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	Slower than ether	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	Heavier than air
Specific Gravity	0.91	
Water solubility	Insoluble in water	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	46 mm ² /s	@ 40 °C
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	
VOC Content (%)	No Data Available
Density	0.91 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable.

Chemical stability

Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Materials to avoid: Strong oxidizing agents, Strong reducing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Phosphorus oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Causes skin irritation.
Inhalation	May cause irritation.
Eye contact	Non-irritating to the eyes. Based on test data for this or similar products.
Skin Contact	Causes skin irritation. Based on test data for this or similar products.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
9-Octadecene-1-Amine, (Z)- 112-90-3	= 1689 mg/kg (Rat)	-	-
Bis(2-ethyhexyl) hydrogen phosphate 298-07-7	= 1400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
2-Ethyhexyl dihydrogen phosphate 1070-03-7	= 3450 mg/kg (Rat)	> 4650 mg/kg (Rabbit)	-

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No Data Available.
Mutagenic effects:	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Chronic toxicity	Prolonged skin contact may defat the skin and produce dermatitis.
Subchronic toxicity	No information available.
Target Organ Effects	Gastrointestinal tract (GI), Skin, Eyes, Respiratory system.
Neurological effects	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	60.3 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .	
ATEmix (oral)	1828 mg/kg
ATEmix (dermal)	5608 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity: Very toxic to aquatic life. Chronic Aquatic Toxicity: Very toxic to aquatic life with long lasting effects

70.2 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bis(2-ethyhexyl) hydrogen phosphate 298-07-7		20: 96 h Oncorhynchus mykiss mg/L LC50 static		

Persistence and degradability

This product contains components which may be persistent in the environment.

Bioaccumulation

No information available.

Mobility

The product is insoluble and floats on water.

Chemical Name	Partition coefficient
Bis(2-ethyhexyl) hydrogen phosphate 298-07-7	2.67

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Dispose of in accordance with federal, state and local regulations.

Contaminated packaging

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Limited quantity (LQ)

< 5 Liters , For IMDG, and IATA

DOT

Not regulated

IATA

UN/ID No

UN3082

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LONG-CHAIN ALKENYL AMINE), MARINE POLLUTANT

Hazard Class

9

Packing Group:

III

IMDG

UN/ID No

UN3082

Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LONG-CHAIN ALKENYL AMINE), MARINE POLLUTANT

Hazard Class

9

Packing Group:

III

Marine pollutant

This material meets the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

No SARA 313 chemicals are present above the reporting threshold.

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302): Phosphoric acid : RQ = 5000 lbs. (2270 kg.), Naphthalene: RQ = 100 lbs. (45.4 kg.)

State Regulations (RTK)

California Proposition 65

WARNING! This product contains a chemical known in the State of California to cause cancer:

Chemical Name	CAS Number	California Proposition 65
Naphthalene	91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA Rating

Health hazards 1

Flammability 1

Instability 0

Physical and Chemical Properties -

HMIS Rating

Health hazards 1

Flammability 1

Physical hazards 0

Personal protection B

Prepared by Environmental Health and Safety Department

Issue Date 01-27-2020

Revision Date 01-27-2020

Revision Note

The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 2, 3, 11, 12, 14, 16.

Disclaimer

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.

End of Safety Data Sheet