



SAFETY DATA SHEET

Issue Date 01-31-2018

Revision Date 01-31-2018

Version 4

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

Product identifier

Product Name: ULTIMA POWER-STEERING FLUID

Other means of identification

Common Name: 0612

Synonyms None

Product Categories Automotive lubricant additives

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

Skin sensitization	Sub-category 1B
Aspiration toxicity	Category 1

Label elements

Emergency Overview

<p>Danger</p> <p>Hazard statements May cause an allergic skin reaction May be fatal if swallowed and enters airways</p> <p style="text-align: center;">  </p> <p> Appearance Oil Physical state Liquid Odor Mild Petroleum </p>		
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Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves

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 or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician
 Do not induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Toxic to aquatic life with long lasting effects
- 97.66 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
1-Decene, Homopolymer, Hydrogenated	68037-01-4	80-95	*
Mineral Oil	MIXTURE	1-10	*
Methacrylate copolymer	PROPRIETARY	1-10	*
Fatty Acid Esters	MIXTURE	1-2	*
Benzenamine, N-Phenyl-, Reaction Products With 2,4,4-Trimethylpentene	68411-46-1	0-3	*
Alkyl diphenylamine	184378-08-3	0-3	*
Substituted hydrocarbyl sulfide	CONFIDENTIAL	0.2-0.5	*
Long chain hydroxyalkylamine	CONFIDENTIAL	0.1-0.3	*

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

The mineral oil contained in this material may be described by one or more of the following CAS Nos. : CAS# 72623-87-1, CAS#64742-54-7, CAS#64742-65-0, CAS# 64742-55-8, CAS#64742-56-9.

4. FIRST AID MEASURES**First aid measures**

Skin contact	Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhalation	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If not breathing, give artificial respiration.
Eye contact	Immediately flush eyes for at least 15 minutes. Get medical attention.
Ingestion	Call a physician or Poison Control Center immediately. Do not induce vomiting.
Notes to Physician	Aspiration hazard if swallowed - can enter lungs and cause damage. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Symptoms	Drowsiness, Dizziness, Coughing and/ or wheezing; Eye irritation. Skin irritation: May cause allergic skin reaction.
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Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider	Avoid contact with skin. Wear appropriate gloves. Remove and wash contaminated clothing. See Section 8 for information on appropriate personal protective equipment.
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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; Foam.

Explosive properties: Risk of explosion if heated under confinement: Fire or intense heat may cause violent rupture of packages:

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer: May cause sensitization by skin contact.

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO₂), Hydrocarbons, Methacrylates, Aldehydes, Nitrogen oxides (NO_x), Oxides of sulfur.

Specific methods:

Sensitivity to Mechanical Impact None.

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

Special firefighting procedures:

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Dike to collect large liquid spills. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use water jet. Do not use a solid water stream as it may scatter and spread fire. The product is insoluble and floats on water. Use water spray to keep fire-exposed containers cool. Water may cause frothing of heated materials. Avoid spreading burning liquid with water used for cooling purposes. Water mist may be used to cool closed containers. 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: Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for Containment Dike far ahead of spill; use dry sand to contain the flow of material. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for clean-up: Clean-up methods - small spillage: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to state, local, federal regulations. Clean-up methods - large spillage: Keep unnecessary personnel away. 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: Protect from physical damage. Do not store at temperatures above 120°F (50°C). Keep containers tightly closed in a cool, well-ventilated place. Empty containers retain product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of

ignition. They may explode and cause injury or death.

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: Oxidizing agents, Reducing agents, Strong acids and strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
1-Decene, Homopolymer, Hydrogenated 68037-01-4	5 mg/m ³ TLV (inhalable fraction)	5 mg/m ³	-
Mineral Oil MIXTURE	5 mg/m ³ TWA (mist) 10 mg/m ³ STEL (mist)	5 mg/m ³	-
Methacrylate copolymer PROPRIETARY	-	Not established	-
Fatty Acid Esters MIXTURE	-	-	-
Benzenamine, N-Phenyl-, Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	STEL: No data TWA: 10 mg/m ³	Not established	-
Alkyl diphenylamine 184378-08-3	-	Not established	-
Substituted hydrocarbyl sulfide CONFIDENTIAL	-	Not established	-
Long chain hydroxyalkylamine CONFIDENTIAL	-	Not established	-

Appropriate engineering controls

Engineering measures: Ensure adequate ventilation: Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear normal work clothing: Long sleeved clothing. Do not wear rings, watches or similar apparel that could entrap the material. Wear protective gloves. Recommended Use: Viton®, Nitrile rubber, Silver Shield (consult with the specific manufacturer to confirm performance).

Respiratory protection Ensure adequate ventilation. 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. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Mild Petroleum
Appearance	Oil	Odor threshold	No information available
Color	Green		
Property	Values	Remarks • Method	
pH	N/A	Not applicable.	
Melting point/freezing point	No information available		
Boiling point / boiling range	> 300 °C / 572 °F	(Lowest liquid component)	
Flash point	> 134 °C / 273 °F	(based on components)	
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		
Specific Gravity	0.83		
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	7 mm ² /s	@ 100 °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 (%)	Negligible
Density	0.83 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: Oxidizing agents, Reducing agents, Strong acids and strong bases.

Hazardous Decomposition Products

Hazardous Decomposition Products Carbon monoxide, Carbon dioxide (CO₂), Hydrocarbons, Methacrylates, Aldehydes,

Nitrogen oxides (NOx), Sulfur oxides (SOx).

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information	May cause allergic skin reaction. May be fatal if swallowed and enters airways.
Inhalation	Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.
Eye contact	Contact with eyes may cause irritation.
Skin Contact	May cause allergic skin reaction.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-Decene, Homopolymer, Hydrogenated 68037-01-4	= 5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	-
Mineral Oil MIXTURE	25000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Methacrylate copolymer PROPRIETARY	-	-	-
Fatty Acid Esters MIXTURE	-	-	-
Benzenamine, N-Phenyl-,Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	>2000 mg/kg (Rat)	>2000 mg/kg (Rat)	2170 mg/m ³ (rat) 4hr
Alkyl diphenylamine 184378-08-3	>5000 mg/kg(Rat)	>2000 mg/kg (Rabbit)	-
Substituted hydrocarbyl sulfide CONFIDENTIAL	-	-	-
Long chain hydroxyalkylamine CONFIDENTIAL	-	-	-

Information on toxicological effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	Skin Sensitization: May cause allergic skin reaction. Respiratory Sensitization: Not classified.
Mutagenic effects:	No data available to indicate product or any components present at or greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA.
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	Skin, Eyes, Respiratory system.
Neurological effects	No information available.
Other adverse effects	(CAS#68411-46-1) Benzeneamine, N-Phenyl, reaction products with 2,4,4 trimethylpentene: Adaptive effects were observed after repeated exposure in animal studies. May cause blood effects. May cause damage to liver after repeated high doses, as shown in animal studies.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	97.66 % of the mixture consists of ingredient(s) of unknown toxicity
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The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (inhalation-vapor) 8236 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

98.45 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Decene, Homopolymer, Hydrogenated 68037-01-4	1000:72h Scenedesmus capricornutum mg/l NOELR OECD Test Guideline 201	> 1000 : 96h Salmo gairdneri mg/l LC50: >750: 96h Pimephales promelas mg/l LC50		190:48h Daphnia magna mg/l EC50
Mineral Oil MIXTURE	>100: 3d Scenedesmus quadricauda mg/L EC50	>100:4d Fathead Minnow mg/L LC50		>10000: 2d Daphnia magna mg/L EC50
Benzenamine, N-Phenyl-,Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	>100 -72 h mg/L Desmodesmus subspicarius EC50	>71 96h mg/L Brachydanio rerio LC50		=51 48h mg/L EC50 Daphnia magna

Persistence and degradability

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

Bioaccumulation

Bioaccumulative potential.

Mobility

The product is insoluble and floats on water.

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

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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	Yes
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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations (RTK)

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm:

Chemical Name	CAS Number	California Proposition 65
Ethylbenzene	100-41-4	Carcinogen
Naphthalene	91-20-3	Carcinogen
Sulfur dioxide	7446-09-5	Developmental
Ethyl acrylate	140-88-5	Carcinogen
Trimethyl phosphate	512-56-2	Carcinogen
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen Developmental Male Reproductive

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

Chronic Hazard Star Legend

** = Chronic Health Hazard*

Prepared by

Environmental Health and Safety Department

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Revision Note

Formula The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 2, 3, 4, 5, 8, 11, 12, 15.

Disclaimer

The information provided in this Material 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