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: MULTI-VEHICLE SYNTHETIC CVT FLUID

Other means of identification

Common Name: 0417
UN/ID No Not Regulated
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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview

Appearance Oil **Physical state** Liquid **Odor** Sulphurous

Precautionary Statements - Response

Hazards not otherwise classified (HNOC)

Other information

21.21 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Hydrotreated Light Paraffinic Oil	64742-55-8	50-70	*
Hydrotreated Heavy Paraffinic Oil	64742-54-7	10-20	*
Alkyl Borate	PROPRIETARY	1-3	*

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

4. FIRST AID MEASURES

First aid measures

Skin contact Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion Call a physician. If swallowed, call a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Drowsiness, Dizziness, Coughing and/ or wheezing; Skin irritation, Eye irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Low hazard for usual industrial or commercial handling.

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.

Hazardous combustion products Aldehydes, Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons, Nitrogen oxides (NOx), Oxides of boron, Inorganic fumes.

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. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Dike to collect large liquid spills. Do not allow run-off from fire-fighting to enter drains or water courses. Do not use a solid water stream as it may scatter and spread fire. The product is insoluble and floats on water. 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. Move containers from fire area if you can do it without risk.

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. Water runoff can cause environmental damage.

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). Empty containers retain product residue and can be hazardous.

Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Mechanical ventilation required if used indoors on a continuous basis.

Materials to avoid: Oxidizing agents, Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Light Paraffinic Oil 64742-55-8	5 mg/m³	5 mg/m³	-
Hydrotreated Heavy Paraffinic Oil 64742-54-7	5 mg/m³ TWA (mist) 10 mg/m³ STEL (mist)	5 mg/m³	-
Alkyl Borate PROPRIETARY	-	Not established	-

Other information When mists/aerosols can occur, the following are recommended: 5mg/m3 - OSHA PEL.

Appropriate engineering controls

Engineering measures: Mechanical ventilation required if used indoors on a continuous basis.

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, Chemical resistant gloves: (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. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Oil	**Odor**	Sulphurous
Color	Clear Amber, Brown	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	N/A	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 315 °C / 599 °F	(based on components)
Flash point	>= 130 °C / 266 °F	(Lowest liquid component)
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	0.85	
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	32-33 mm2/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 (%)	None
Density	0.85 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.

Hazardous Decomposition Products

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

(NOx), Oxides of boron, Inorganic fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation. May cause respiratory tract irritation. May cause eye irritation. May cause skin irritation.

Inhalation Harmful by inhalation. May cause irritation.

Eye contact Contact with eyes may cause irritation.

Skin Contact May cause irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Potential for aspiration if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrotreated Light Paraffinic Oil 64742-55-8	>5000 mg/kg	>2000 mg/kg	= 3900 mg/m³ (Rat) 4 h
Hydrotreated Heavy Paraffinic Oil 64742-54-7	>5000mg/kg (Rat)	>5000 mg/kg (Rabbit)	-
Alkyl Borate PROPRIETARY	-	-	-

Information on toxicological effects

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

Sensitization Skin Sensitization, Respiratory Sensitization: Not expected.
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 No information available.
Subchronic toxicity No information available.
Target Organ Effects Skin, Eyes, Respiratory system.
Neurological effects No information available.
Other adverse effects No information available.
Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 21.21 % 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) 51921 mg/kg
ATEmix (dermal) 155763 mg/kg
ATEmix (inhalation-dust/mist) 260.1 mg/l
ATEmix (inhalation-vapor) 6300 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

21.21 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrotreated Light Paraffinic Oil 64742-55-8		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Hydrotreated Heavy Paraffinic Oil 64742-54-7		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50

Persistence and degradability
No information available.

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/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, 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
Methyl alcohol	67-56-1	Developmental
Sulfur dioxide	7446-09-5	Developmental
Trimethyl phosphate	512-56-2	Carcinogen
Naphthalene	91-20-3	Carcinogen
Ethyl benzene	100-41-4	Carcinogen
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
Toluene	108-88-3	Developmental

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	01-31-2018
Revision Date	01-31-2018

Revision Note
This data sheet contains changes from the previous version in section(s): 4 ,5, 6, 7, 8, 11, 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