

# **SAFETY DATA SHEET**

Issue Date 01-31-2018 Revision Date 01-31-2018 Version 2

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

Product identifier

**Product Name:** MOC SYNTHETIC DCT FLUID

Other means of identification

**Common Name:** 0426

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

Restricted to professional users. **Recommended Use** 

Consumer use Uses advised against

### 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 Emergency Telephone MOC PRODUCTS CO., INC. (818) 794-3500

CHEMTREC 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Aspiration toxicity	Category 1

#### Label elements

#### **Emergency Overview**

#### Danger

#### Hazard statements

Harmful in contact with skin

Harmful if inhaled

May cause an allergic skin reaction

May be fatal if swallowed and enters airways



Appearance Oil Physical state Liquid Odor Bland

### **Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

#### **Precautionary Statements - Response**

Specific measures (see prevention statements and warnings on this label)

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

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CONTROL CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CONTROL CENTER or doctor/physician if you feel unwell

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

• May be harmful if swallowed

93.77 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Polyalphaolefins	MIXTURE	55-90	*
Mineral Oil	MIXTURE	8-15	*
Substituted thiadiazole	CONFIDENTIAL	0.27-1.4	*
Heterocyclic Ether	CONFIDENTIAL	0.27-1.4	*
Fatty acid amide	CONFIDENTIAL	0.27-1.4	*
Alkaryl amine	CONFIDENTIAL	0.27-1.4	*
Borate Ester	UNKNOWN	0.14-0.3	*
Ethoxylated amine	CONFIDENTIAL	0-0.14	*
Diphenylamine	122-39-4	0.1-0.14	*
2-Ethylhexyl methacrylate	688-84-6	0.1-0.14	*

<sup>\*</sup>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

Polyalphaolefins contained in this material may be described by one or more of the following CAS Nos.: CAS# 151006-58-5, CAS#68649-11-6, and CAS#68037-01-4

### 4. FIRST AID MEASURES

First aid measures

**Skin contact** Wash off immediately with soap and plenty of water. Take off contaminated clothing and

wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.

Eye contact Flush eye(s) immediately with plenty of water. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical attention if irritation occurs.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately. Aspiration

may cause pulmonary oedema and pneumonitis.

Notes to Physician Aspiration hazard if swallowed - can enter lungs and cause damage.

Most important symptoms and effects, both acute and delayed

**Symptoms** Skin irritation: May cause allergic skin reaction. Coughing and/ or wheezing; Nausea,

Diarrhea, Eye irritation.

Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider Avoid breathing vapors or mists. Avoid contact with skin. Wash contaminated clothing

thoroughly with water before removing it and wear gloves.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray or fog; Carbon dioxide (CO2), Dry chemical, Foam.

Small Fire Dry chemical or CO2.

Water spray or fog; Foam. Large Fire

**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

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

Hazardous combustion products Carbon monoxide, Carbon dioxide (CO2), Smoke, Volatile organic compounds, Nitrogen

oxides (NOx), Oxides of sulfur, Varied particulate matter.

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. The product is insoluble and floats on water. Water mist may be used to cool closed containers. Keep exposed unopened containers cool to prevent rupture. Do not use a solid water stream as it may scatter and spread fire. Move containers from fire area if you can do it without risk. Avoid spreading burning liquid with water used for cooling purposes.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people away from and upwind of spill/leak. Do not touch damaged containers or

> spilled material unless wearing appropriate protective clothing. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.

Contaminated surfaces will be extremely slippery.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** 

Prevent product from entering drains. Do not flush into surface water or sanitary sewer **Environmental precautions:** 

system. 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** Prevent further leakage or spillage if safe to do so. 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.

Clean-up methods - small spillage: Contain and collect spillage with non-combustible Methods for clean-up:

> 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

Protect from physical damage. Use personal protective equipment as required. Avoid Handling:

contact with eyes, skin and clothing. Avoid breathing vapors or mists. Ensure adequate

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ventilation. Do not store at temperatures above 113°F (45°C). Take precautionary

measures against static discharge.

#### Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Ensure adequate ventilation, especially in confined areas. Eye wash and safety shower

should be easily accessible.

Materials to avoid: Oxidizing agents, Strong acids.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Polyalphaolefins MIXTURE	-	-	-
Mineral Oil MIXTURE	5 mg/m³ TWA (mist) 10 mg/m³ STEL (mist)	5 mg/m³	-
Substituted thiadiazole CONFIDENTIAL	-	-	-
Heterocyclic Ether CONFIDENTIAL	-	-	-
Fatty acid amide CONFIDENTIAL	-	-	-
Alkaryl amine CONFIDENTIAL	-	-	-
Borate Ester UNKNOWN	-	-	-
Ethoxylated amine CONFIDENTIAL	-	-	-
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
2-Ethylhexyl methacrylate 688-84-6	-	-	<u>-</u>

#### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. 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** Chemical resistant apron, 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. Avoid contact with

eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protective

equipment as required. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work

clothing should not be allowed out of the workplace.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid Appearance Oil

AppearanceOilOdorBland

Color Amber, Light, Clear Odor threshold No information available

Heavier than air

@ 100 °C

PropertyValuesRemarks • MethodpHN/ANot applicable

Melting point/freezing point No information available

Boiling point / boiling range >= 290-440 °C / 554-824 °F (based on components)
Flash point >= 142 °C / 288 °F (based on components)
Evaporation rate No Data Available No information available

Flammability Limits in Air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

No Data Available
No Data Available
No Data Available
No Data Available

Specific Gravity 0.84

Water solubility

Solubility in other solvents

Partition coefficient
Autoignition temperature
Decomposition temperature

Insoluble in water
No Data Available
No Data Available
No Data Available

Kinematic viscosity 7.0

Dynamic viscosityNo Data AvailableExplosive propertiesNo Data AvailableOxidizing propertiesNo Data Available

Other information

Softening point No Data Available Molecular weight No Data Available

**VOC Content (%)** 

VOC Content (%) None

**Density** 0.84 g/cc

Bulk density No Data Available

### 10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions

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.

Incompatible materials

Materials to avoid: Oxidizing agents, Strong acids.

**Hazardous Decomposition Products** 

<u>Hazardous Decomposition Products</u> Carbon monoxide, Carbon dioxide (CO2), Volatile organic compounds, Nitrogen oxides (NOx), Sulfur oxides (SOx).

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful in contact with skin. Harmful if inhaled. May cause allergic skin reaction. May be

fatal if swallowed and enters airways.

**Inhalation** Harmful if inhaled. Inhalation of oil mists or vapors generated at elevated temperatures may

cause respiratory irritation. Avoid breathing vapors or mists.

**Eye contact** May cause irritation.

**Skin Contact** Harmful in contact with skin. May cause allergic skin reaction.

Ingestion May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and

pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyalphaolefins MIXTURE	>5000 mg/kg (Rat)	-	1170 mg/m³ (Aerosol)(Rat)
Mineral Oil MIXTURE	25000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Substituted thiadiazole CONFIDENTIAL	-	-	-
Heterocyclic Ether CONFIDENTIAL	-	-	-
Fatty acid amide CONFIDENTIAL	-	-	-
Alkaryl amine CONFIDENTIAL	-	-	-
Borate Ester UNKNOWN	-	-	-
Ethoxylated amine CONFIDENTIAL	-	-	-
Diphenylamine 122-39-4	= 1120 mg/kg ( Rat )	> 2000 mg/kg (Rabbit)	-
2-Ethylhexyl methacrylate 688-84-6	=16465 mg/kg (Rat)	-	-

### 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

This material (or a component) has been shown to cause harm to the fetus in laboratory

animal studies: Diphenylamine (CAS#122-39-4).

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 Liver, Kidney, Blood, Respiratory system, Skin.

Neurological effects No information available.

Other adverse effects Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting. Contains .? Diphenylamine (CAS#122-39-4). May affect:

Kidney, Blood, Liver.

**Aspiration hazard** Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 93.77 % 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) 2564 mg/kg
ATEmix (dermal) 1978 mg/kg
ATEmix (inhalation-dust/mist) 0.6 mg/l
ATEmix (inhalation-vapor) 2.5 mg/l

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

94.39 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Mineral Oil MIXTURE	>100: 3d Scenedesmus quadricauda mg/L EC50	>100:4d Fathead Minnow mg/L LC50	•	>10000: 2d Daphnia magna mg/L EC50
Substituted thiadiazole CONFIDENTIAL	>100: 3d Selenastrum capricornutum mg/L EC50	>1000: 4d Fathead minnow mg/L LC50	>8000: 0.7d Pseudomonas putida mg/L EC50	41: 2d Daphnia magna mg/L EC50
Heterocyclic Ether CONFIDENTIAL	63:3d Scenedesmus quadricauda mg/L EC50	2.4: 4d Rainbow Trout mg/L LC50	10000: 0.1d Sludge mg/L EC50	4.6: 2d Daphnia magna mg/L EC50
Fatty acid amide CONFIDENTIAL	94:4d Selenastrum capricornutum mg/L EC50	>1000: 4d Fathead minnow mg/L LC50	>1000: 0.1d Sludge mg/L EC50	>1000: 2d Daphnia magna mg/L EC50
Alkaryl amine CONFIDENTIAL	600: 3d Selenastrum capricornutum mg/L EC50	>100:4d Zebra Fish mg/L LC50	>1000: 0.1d Sludge mg/L EC50	>100:2d Daphnia magna mg/L EC50
Borate Ester UNKNOWN	>100:3d Selenastrum capricornutum mg/L EC50	>100:4d Rainbow Trout mg/L LC50	>10000:0.1d Sludge mg/L EC50	>100:2d Daphnia magna mg/L LC50
Ethoxylated amine CONFIDENTIAL	0.029: 3d Selenastrum capricornutum mg/L EC50	<1: 4d Not Reported mg/L LC50		<1:2d Daphnia magna mg/L EC50
Diphenylamine 122-39-4	1.5: 72 h Scenedesmus subspicatus mg/L EC50	3.47 - 4.14: 96 h Pimephales promelas mg/L LC50 flow-through		1.69 - 2.46: 48 h Daphnia magna mg/L EC50
2-Ethylhexyl methacrylate 688-84-6		2.78: 4d mg/L Red Killifish LC50		0.105: 21d mg/L Daphnia magna EC50

### Persistence and degradability

NOT READILY BIODEGRADABLE.

#### **Bioaccumulation**

Bioaccumulative potential.

### **Mobility**

The product is insoluble and floats on water.

Chemical Name	Partition coefficient
Substituted thiadiazole CONFIDENTIAL	9.4
Heterocyclic Ether CONFIDENTIAL	4.1
Fatty acid amide CONFIDENTIAL	45.8
Borate Ester UNKNOWN	9.4
Diphenylamine 122-39-4	3.4
2-Ethylhexyl methacrylate 688-84-6	4.95

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

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

0426 MOC SYNTHETIC DCT FLUID

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Contaminated packaging

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

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

<u>IATA</u> 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.

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
Diphenylamine	122-39-4	0.1-0.14	1.0 % de minimis
122-39-4			concentration

#### 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
Toluene	108-88-3	Developmental
Sulfur dioxide	7446-09-5	Developmental
Trimethyl phosphate	512-56-2	Carcinogen
2-Ethoxyethanol	110-80-5	Developmental
·		Male Reproductive
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 -**

Physical and Chemical
HMIS Rating
Health hazards 1
Flammability 1
Physical hazards 0
Personal protection C

Prepared by Environmental Health and Safety Department

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 01-31-2018

**Revision Note** 

This data sheet contains changes from the previous version in section(s): 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**