

### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 31525 Issue date: 11/29/2023 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form Product name : Mixture : Develon UTTO Axle Fluid

1.2. Recommended use and restrictions on use

#### No additional information available

1.3. Supplier

Develon 2905 Shawnee Industrial Way Suwanee, GA 30024 USA T (678) 714-6000

1.4. Emergency telephone number

Emergency number

: 1-800-424-9300 (CHEMTREC)

## SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

#### GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

### GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

## **SECTION 3: Composition/Information on ingredients**

3.1. Substances

### Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	CAS-No.: 64742-65-0	50 - 60	Asp. Tox. 1, H304
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	CAS-No.: 64742-46-7	1 - 5	Asp. Tox. 1, H304

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Name	Product identifier	%	GHS US classification
ZINC ALKYLDITHIOPHOSPHATE	CAS-No.: 68649-42-3	1 - 2.5	Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
BORATE ESTER	CAS-No.: TRADE SECRET	0.1 - 1	Skin Sens. 1B, H317
PHOSPHOROUS ACID, TRIPHENYL ESTER	CAS-No.: 101-02-0	0.025 - 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell. First aider: Pay attention to self- protection.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.	
First-aid measures after skin contact	: Seek medical attention if ill effect or irritation develops. Wash skin with plenty of water.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes.	
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. If you feel unwell, seek medical advice.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.	

4.3. Immediate medical attention and special treatment, if necessary

#### Treat symptomatically.

SECTION 5: Fire-fighting measu	ires
5.1. Suitable (and unsuitable) exting	guishing media
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder Foam. Carbon dioxide.</li> <li>Do not use a heavy water stream.</li> </ul>
5.2. Specific hazards arising from t	he chemical
Fire hazard	: vapors may cause fire/explosion if source of ignition is present. Watch out for invisible flames. The vapors are denser than air and may travel along the ground. Distance ignition possible.
5.3. Special protective equipment a	nd precautions for fire-fighters
Firefighting instructions	Evacuate area. Use water spray or fog for cooling exposed containers. Do not allow water to enter the vessels, a violent reaction may occur. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. In case of fire: Stop leak if safe to do so.
Protection during firefighting Other information	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>High temperature decomposition products are harmful by inhalation. On exposure to high temperature, may decompose, releasing toxic gases.</li> </ul>

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#### **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures General measures : Clean up any spills as soon as possible, using an absorbent material to collect it. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Eliminate every possible source of ignition. Evacuate area. 6.1.1. For non-emergency personnel Protective equipment : Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Emergency procedures Evacuate unnecessary personnel. Do not breathe vapors. No open flames, no sparks, and no smoking. 6.1.2. For emergency responders Protective equipment Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Emergency procedures Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for cont	ainment and cleaning up
For containment	Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. Clear up rapidly by scoop or vacuum.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.	
Precautions for safe handling	<ul> <li>Ensure good ventilation of the work station. Do not breathe vapors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> </ul>	
Handling temperature	: ≤ 140 °F	
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Separate working clothes from town clothes. Launder separately.	
7.2. Conditions for safe storage, inclu	uding any incompatibilities	

Storage conditions

: Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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USA - ACGIH - Occupational Exposure Lir	mits	
ACGIH OEL TWA	5 mg/m <sup>3</sup> Contains highly refined petroleum oil	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA	5 mg/m <sup>3</sup> Contains highly refined petroleum oil	
OSHA PEL STEL	10 mg/m <sup>3</sup> Contains highly refined petroleum oil	
8.2. Appropriate engineering controls	3	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
Environmental exposure controls	: Avoid release to the environment.	
8.3. Individual protection measures/P	ersonal protective equipment	
Personal protective equipment: Wear recommended personal protective equip	pment.	
	pment.	
Wear recommended personal protective equip	pment.	
Wear recommended personal protective equip	pment.	
Wear recommended personal protective equip Hand protection: Protective gloves. nitrile rubber gloves	pment.	
Wear recommended personal protective equip Hand protection: Protective gloves. nitrile rubber gloves Eye protection:	pment.	
Wear recommended personal protective equip Hand protection: Protective gloves. nitrile rubber gloves Eye protection: Chemical goggles or safety glasses Skin and body protection:	pment.	
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## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold pH Melting point	<ul> <li>Liquid</li> <li>amber</li> <li>characteristic</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
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01	: No data available . No data available
Freezing point Boiling point	: No data available
Flash point	: > 198 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available

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Relative density Solubility Partition coefficient n-octanol/water (Log Pow)	: 0.884 @ 15.6°C : No data available : No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 55 mm²/s @ 40°C
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

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SECTION	10. Stability	and reactivity
SLUTION	10. Stability	and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

#### Stable under normal conditions.

10.3. Possibility of hazardous reactions

#### None under normal use.

10.4. Conditions to avoid

### High temperature.

10.5. Incompatible materials

Acids. Oxidizing agent.

10.6. Hazardous decomposition products

fume. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological in	nformation
11.1. Information on toxicologica	al effects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified :
PHOSPHOROUS ACID, TRIPHE	NYL ESTER (101-02-0)
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: other:
LD50 dermal rabbit	2000 – 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 21 day(s))
LC50 Inhalation - Rat	> 6.7 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 21 day(s))
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight

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DISTILLATES (PETROLEUM), SOLVENT-DE	WAXED HEAVY PARAFFINIC (64742-65-0)
LD50 dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation - Rat (Dust/Mist)	2.18 mg/l Source: IUCLID
ATE US (dust, mist)	2.18 mg/l/4h
ZINC ALKYLDITHIOPHOSPHATE (68649-42	-3)
LD50 dermal rabbit	> 3160 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 5000 mg/m³ Source: ECHA
Skin corrosion/irritation	: Not classified
PHOSPHOROUS ACID, TRIPHENYL ESTER	(101-02-0)
На	No data available in the literature
ZINC ALKYLDITHIOPHOSPHATE (68649-42	3)
pH Socious eve domogo/irritotion	5.5 – 7.5 Source: ECHA : Not classified.
Serious eye damage/irritation PHOSPHOROUS ACID, TRIPHENYL ESTER	
pH	No data available in the literature
ZINC ALKYLDITHIOPHOSPHATE (68649-42	-3)
рН	5.5 – 7.5 Source: ECHA
Respiratory or skin sensitization	: Skin sensitization: Not classified.
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity	: Not classified
ZINC ALKYLDITHIOPHOSPHATE (68649-42	-3)
NOAEL (animal/female, F0/P)	300 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:
NOAEL (animal/female, F1)	1000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
PHOSPHOROUS ACID, TRIPHENYL ESTER	(101-02-0)
NOAEL (oral,rat,90 days)	15 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
DISTILLATES (PETROLEUM), SOLVENT-DE	WAXED HEAVY PARAFFINIC (64742-65-0)
LOAEL (oral,rat,90 days)	125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation,rat,dust/mist/fume,90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28- Day Study)
Aspiration hazard Viscosity, kinematic	: Not classified : 55 mm²/s @ 40°C
PHOSPHOROUS ACID, TRIPHENYL ESTER	(101-02-0)
Viscosity, kinematic	18 mm²/s (20 °C, OECD 114: Viscosity of Liquids)

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ZINC ALKYLDITHIOPHOSPHATE (68649-42-3)		
Viscosity, kinematic	9 – 15 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'	
Symptoms/effects :	Not expected to present a significant hazard under anticipated conditions of normal use.	

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Develon UTTO Axle Fluid			
LC50 - Fish [1]	> 100 mg/l		
LC50 - Other aquatic organisms [1]	> 100 mg/l		
PHOSPHOROUS ACID, TRIPHENYL ESTER (1	01-02-0)		
LC50 - Fish [1]	0.7 mg/l (96 h, Carassius auratus, Literature study)		
EC50 96h - Algae [1]	0.013 mg/l Source: Ecological Structure Activity Relationships		
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)			
LC50 - Fish [1]	> 5000 mg/l Source: IUCLID		
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID		
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID		
ZINC ALKYLDITHIOPHOSPHATE (68649-42-3)			
LC50 - Fish [1]	1 – 5 mg/l Source: ECHA		
EC50 - Crustacea [1]	1 – 1.5 mg/l Source: IUCLID		
EC50 96h - Algae [1]	1 – 5 mg/l Source: IUCLID		

## 12.2. Persistence and degradability

Develon UTTO Axle Fluid		
Persistence and degradability	Not rapidly degradable	
HYDROTREATED MIDDLE DISTILLATE (PETR	OLEUM) (64742-46-7)	
Persistence and degradability	Not rapidly degradable	
BORATE ESTER (TRADE SECRET)		
Persistence and degradability	Not rapidly degradable	
PHOSPHOROUS ACID, TRIPHENYL ESTER (101-02-0)		
Persistence and degradability	Readily biodegradable in water.	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)		
Persistence and degradability	Biodegradability in water: no data available.	
Persistence and degradability ZINC ALKYLDITHIOPHOSPHATE (68649-42-3)		

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12.3	Bioaccumu	lative	notential
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PHOSPHOROUS ACID, TRIPHENYL ESTER (101-02-0)		
10910 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)		
6.62 (Calculated, KOWWIN, 25 °C)		
High potential for bioaccumulation (BCF > 5000).		
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (64742-65-0)		
3.9 – 6 (Calculated)		
No bioaccumulation data available.		
ZINC ALKYLDITHIOPHOSPHATE (68649-42-3)		
14.876 Source: ECHA		

12.4. Mobility in soil

PHOSPHOROUS ACID, TRIPHENYL ESTER (101-02-0)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.745 – 6.281 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil. Toxic to flora.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations 13.1. Disposal methods			
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Sewage disposal recommendations	: Disposal must be done according to official regulations.		
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.		
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.		
Ecological information	: Avoid release to the environment.		

SECTION 14: Transport information		
In accordance with DOT		
14.1. UN number		
DOT NA No	: Not regulated	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Not regulated	

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14.3. Transport hazard class(es)		
<b>DOT</b> Transport hazard class(es) (DOT)	: Not regulated	
14.4. Packing group		
Packing group (DOT)	: Not regulated	
14.5. Environmental hazards		
Other information	: No supplementary information available.	
14.6. Special precautions for user		
DOT Not regulated		

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

## 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
HYDROTREATED MIDDLE DISTILLATE (PETROLEUM)	64742-46-7	Present	Active	
BORATE ESTER	TRADE SECRET	Not present	-	
PHOSPHOROUS ACID, TRIPHENYL ESTER	101-02-0	Not present	-	
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Not present	-	
ZINC ALKYLDITHIOPHOSPHATE	68649-42-3	Not present	-	

15.2. International regulations

### CANADA

### **Develon UTTO Axle Fluid**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

## HYDROTREATED MIDDLE DISTILLATE (PETROLEUM) (64742-46-7)

Listed on the Canadian DSL (Domestic Substances List)

## BORATE ESTER (TRADE SECRET)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### EU-Regulations

No additional information available

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#### National regulations

### HYDROTREATED MIDDLE DISTILLATE (PETROLEUM) (64742-46-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

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Full text of H	1-phrases		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H400	Very toxic to aquatic life		
H401	Toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
H411	Toxic to aquatic life with long lasting effects		
NFPA health h	initiation		
NFPA fire haz	zard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.		
NFPA reactivit			
Hazard Rating	g		

Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,
	solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT
	react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.