



HMIS	
Health Hazard	0
Fire Hazard	1
Reactivity	0

This SDS is in accordance with US 2012 OSHA Hazard Communication Standard (29 CFR1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>TRIAX Powerfluid 450</b>
<b>Recommended Use</b>	Power Steering and Hydraulic Suspension Not for use in internal combustion engines
<b>Manufactured by:</b>	TRIAX LLC 751 Port America, Suite 810. Grapevine, TX 76051 Phone: 214-897-6533
<b>Emergency Telephone Number</b>	CHEMTREC 1 (800) 424-9300 International: +011(703) 527-3887

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### Classification

This product is **not considered hazardous** by either the US 2012 OSHA Hazard Communication Standard (29 CFR1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015).

<b>Appearance</b>	Green liquid	<b>Physical State</b>	liquid	<b>Odor</b>	Petroleum odor
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#### Potential Health Effects

**Principal Routes of Exposure** Eye contact, Skin contact, Inhalation, Ingestion

#### Acute Toxicity

<b>Eyes</b>	Eye contact may result in slight irritation and redness.
<b>Skin</b>	Substance minimally irritating upon direct contact.
<b>Inhalation</b>	Low hazard at standard temperatures and pressures. Inhalation of oil mist or fumes can cause irritation of the nose, throat and upper respiratory tract
<b>Ingestion</b>	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Other

On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.

#### Chronic Effects

Prolonged exposure may cause chronic effects.

#### Aggravated Medical Conditions

Personnel with pre-existing skin disorders should avoid contact with this product.

**Environmental Hazard**

See Section 12 for additional Ecological Information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Formula** Mixture

Chemical Name	CAS-No	Weight %
Lubricant Base Oil (Petroleum) Highly refined synthetic oils (C15-C50)	Mixture of Group III and PAO Polyalphaol	90-95%
Hydraulic Oil Additive Mixture	Proprietary and Confidential*	5-10%

This product does not contain known hazardous materials at the  $\geq 1\%$  level or known carcinogens at the  $\geq 0.1\%$  level as defined by 29 CFR 1910.1200.

\* Exact % of composition is being withheld as a trade secret.

### 4. FIRST-AID MEASURES

<b>Eye Contact</b>	Flush with large amounts of water for 15 minutes. Get medical attention if eye irritation develops or persists. If material is hot, treat for thermal burns and take victim to the hospital immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention immediately if skin discoloration occurs.
<b>Inhalation</b>	This material is not expected to present an inhalation exposure at ambient conditions.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention or advice.
<b>Notes to Physician</b>	Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	NOT FLAMMABLE
<b>Flash Point</b>	>400 °F
<b>Suitable Extinguishing Media</b>	Water fog, Foam, CO <sub>2</sub> , dry chemical
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Hazardous Combustion Products</b>	Not Available
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive
<b>Sensitivity to Static Discharge</b>	Not sensitive



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## Protective Equipment and Precautions for Firefighters

Wear positive pressure self-contained breathing apparatus (SCBA). Use water to cool containers exposed to flames. Structural firefighters' protective clothing will only provide limited protection. Mist or sprays may be flammable below the product normal flash point.

**NFPA** Health Hazard 0 **Flammability** 1 **Stability** 0 **Physical and Chemical Hazards** -

## 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. If spilled, take caution, as material can cause surfaces to become very slippery.
- Methods for Containment** Dike far ahead of liquid spill for later disposal.
- Methods for Cleaning Up** Pick up free liquid for recycle and/or disposal. Residual liquid and/or solid can be absorbed on inert material.
- Evacuation Procedures**  
**Large Spill** Consider initial downwind evacuate for at least 300 meters (1000 feet).  
**Fire** If tank, rail car or tank car is involved in a fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.
- Reporting Requirements** Spills that enter a water body must be reported immediately to the USEPA's National Response Center at (800)424-8802. Check with your local and state regulators regarding their reporting requirements.

## 7. HANDLING AND STORAGE

- Handling** Do not pressure, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. See NFPA 30 and OSHA 1910.106 – flammable and combustible liquids.
- Storage** Store away from heat, sparks, open flame, or strong oxidizing agents in closed and properly labeled containers. Empty containers retain product residue (liquid, and/or vapor) and can be dangerous

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lubricant Base Oil (Petroleum) Highly refined synthetic oils	5 mg/m <sup>3</sup> 8 hour(s). Form: Mist	5 mg/m <sup>3</sup> 8 hour(s). Form: Mist	2,500 mg/m <sup>3</sup>
Detergent/Inhibitor System Mixture		5 mg/m <sup>3</sup> 8 hour(s). Form: Mist	

- Engineering Measures** Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended limits.



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### Personal Protective Equipment

<b>Eye/Face Protection</b>	Safety glasses or face shield where splashing is possible. Full face-shield to be worn during emergencies.
<b>Skin and Body Protection</b>	As needed to prevent repeated skin contact. Solvent resistant gloves should be used if needed.
<b>Respiratory Protection</b>	Not normally needed. During emergencies wear respirator.

**Hygiene Measures** Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Green liquid	<b>Odor</b>	Mild Petroleum Odor
<b>Physical State</b>	Liquid	<b>pH</b>	N/A
<b>Flash Point</b>	>400 °F	<b>Autoignition Temperature</b>	>315°C /600°F
<b>Boiling Point/Range</b>	No data	<b>Freezing Point</b>	<-40°C /°F
<b>Explosion Limits</b>	N/A	<b>Flammability Limits in Air</b>	N/A
<b>Specific Gravity</b>	0.86 – 0.88	<b>Solubility</b>	Negligible
<b>Evaporation Rate</b>	N/A	<b>Vapor Pressure</b>	<0.01
<b>Vapor Density</b>	Not Determined	<b>Density</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	STABLE under recommended storage conditions and room temperature.
<b>Incompatible Products</b>	Open Flame and strong oxidizing agents.
<b>Conditions to Avoid</b>	Heat, flames, and sparks.
<b>Hazardous Decomposition Products</b>	Combustion products may include smoke, fumes, oxides of phosphorus, boron, sulfur, nitrogen, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons.
<b>Hazardous Polymerization</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### THIS PRODUCT IS NON-HAZ FOR STORAGE AND TRANSPORTATION

<b>Product Information</b>	Test on similar materials show a low order of acute oral and dermal toxicity.
<b>Acute Oral Effects</b>	Test on similar materials indicates low order of acute toxicity.
<b>Acute Inhalation Effects</b>	Low acute toxicity expected on inhalation.
<b>Skin Effects</b>	Practically non-toxic if absorbed. Other similar highly refined products have not shown skin tumors in mouse skin painting studies.
<b>Eye Irritation</b>	Minimal irritation on contact. Eye irritation slightly or practically non-irritating base on similar products.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricant Base Oil (Petroleum) Highly refined synthetic oils	Not Available	Not Available	Not Available

**Chronic Toxicity**

**Chronic Toxicity** Prolonged exposure may cause chronic effects. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations.

**Carcinogenicity** Not considered a potential carcinogen base on IP346 DMSO of less than 3.0 wt%

**Target Organ Effects** Respiratory system, Eyes, Skin,

**Genotoxicity** This product is considered non-mutagenic and has negative potential for tumor development based on from Modified Ames Assay, with Mutagenic Index of less than 1.0.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** If applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Lubricant Base Oil (Petroleum) Highly refined SYNTHETIC base oils	Not Available	Not Available	Not Available	Not Available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of in accordance with local regulations. Keep this product out of sewers and waterways.

**Contaminated Packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated



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**15. REGULATORY INFORMATION**

**International Inventories**

	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
	X	X	X	X	X	X	X	X

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

If spilled into navigable waters it is reportable to National Response Center, 800-424-8802. Reportable Quantity = Oil Sheen present on navigable water surface. (40 CFR 116; 401.15)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**Florida**

No listed ingredients are present

**Massachusetts RTK**

No listed ingredients are present

**Minnesota RTK**

No listed ingredients are present

**New Jersey RTK**

Lists petroleum oil, but this product does not contain hazardous ingredients.

**Pennsylvania RTK**

Lists petroleum oil, but this product does not contain hazardous ingredients greater than 3%.

**Illinois DOL TSL**

No listed ingredients are present

**International Regulations**

**Mexico – Grade** No information available.

**Canada** Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation



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## CONEG Metals

Since cadmium, chromium, lead, and mercury are not detectable and it does not exceed 100ppm total in this product, it is compliant with CONEG Metals regulation.

## EEC (Europe)

This product is not known to be a dangerous good internationally.

R-Phrases

R45: May Cause Cancer

S-Phrases

S53: Avoid exposure - obtain special instructions before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard Label

None

Danger Symbol

None

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.**

## 16. OTHER INFORMATION

**Prepared By** TRIAX, LLC

**Revision Date** March 11, 2024

**Revision Note** None

### Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as 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 material or in any process, unless specified in the text.

End MSDS