

## Stinger Fluid 3PAO

Version  
2ARevision Date  
11/09/2018SDS Number  
3PAO-002-2018Date of Issue  
11/09/2018

### SECTION 1. IDENTIFICATION

Product Name 3PAO

#### Manufacturer Details

Supplier Company Name

FirstPower Group LLC

Address

8941 Dutton Drive  
Twinsburg, OH 44087

Telephone

(330) 963-2050

#### Recommended use of the chemical and restrictions on use

Recommended use

Lubricant for Air Break Disconnect Switch

### SECTION 2. HAZARDS IDENTIFICATION

<b>Physical Hazards</b>	Gases under pressure	Compressed Gas
<b>Health Hazards</b>	Skin irritation	Category 2
	Serious eye irritation	Category 2B
	Sensitization, skin	Category 1B
	Carcinogenicity	Category 1B
	Specific target organ toxicity	Category 3, narcotic effect

#### GHS Label Element



#### Signal Word

Danger

#### Hazard Statement

H223, H332, H280

#### Precautionary Statement

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P261 + P262

### Other Hazards

None known

### SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture	
<u>CAS Number</u>	<u>Component Name</u>	<u>%</u>
151006-62-1, 151006-63-2	Polyalphaolefin Oil	50-80
127-18-4	Tetrachloroethylene (perchloroethylene)	40-70
124-38-9	Carbon Dioxide (Propellant)	1 - 3
138495-42-8	Decafluoropentane (HFC 43-10mee)	< 1
14324-55-1	Zinc Diethyldithiocarbamate	< 1
118-82-1	4,4'-Methylenebi(2,6-di-tert-butylphenol)	< 1
52829-007-9	Bis(2,2,2,6,6-tetramethyl-4-piperidyl) sebacate	< 1
122-39-4	Diphenylamine	< 1

### Hazardous ingredients

None

### SECTION 4. FIRST AID MEASURES

If inhaled	Remove to fresh air. Call a poison control center or physician if symptoms occur.
In case of skin contact	Wash with warm water and soap as a precaution. Remove contaminated clothing and wash before reuse. Seek medical attention if symptoms occur.
In case of eye contact	Flush eyes with water as a precaution. Seek medical attention if irritation develops and persists.
If swallowed	DO NOT induce vomiting. Seek medical attention if symptoms occur. Rinse mouth thoroughly with water. Drink plenty of water.
Most important symptoms and effects, both acute and delayed	Mild skin irritation/rash; nausea

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Protection for first-aid providers	No special precautions are necessary.
Notes to physician	Treat symptomatically and supportively.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Water Fog Foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	Do not use water jets, as this will spread fire.
Specific hazards during firefighting	Contents under pressure. Pressurized container may rupture. Very toxic vapors may evolve. Exposure to combustion products may be hazardous to health.
Hazardous combustion products	Carbon oxides, Hydrogen Chloride, Hydrogen Fluoride, Phosgene.
Specific extinguishing methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if safe to do so. Evacuate the area.
Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for	Soak up with inert, absorbent material. For

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containment and cleanup	large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to the release and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding local and national requirements.
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### SECTION 7. HANDLING AND STORAGE

Technical measures	See <i>engineering measures</i> under section 8 of this SDS.
Local/total ventilation	Use only with adequate ventilation.
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practices. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	Keep in properly labeled containers. Store in accordance with applicable national regulations.
Materials to avoid	Do not store with the following product types: strong oxidizing agents.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m <sup>3</sup>
		5000 ppm

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

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Components	Type	Value
tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm
	TWA	100 ppm

### US. ACGIH Threshold Limit Values

Components	Type	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup> 30000 ppm
	TWA	9000 mg/m <sup>3</sup> 5000 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethylene	Blood	*
	3 ppm	Tetrachloroethylene	End-exhaled air	*

\* For sampling details, please see the source document.

### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

Processing may form hazardous compounds (see SECTION 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

### Personal protective equipment

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Respiratory protection	No personal respiratory protective equipment normally required.
Hand protection	Wash hands before breaks and at the end of the day.
Eye protection	Wear safety glasses or face shield.
Skin and body protection	Skin should be washed after contact.
Hygiene measures	Ensure that eye flushing systems and safety showers are located close to the work place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state	Liquid
Form	Aerosol
Color	Colorless
Odor	Irritating
Odor threshold	50 ppm
pH	Not available.
Melting point/freezing point	Not available
Initial boiling point and boiling	Not available
Flash point	None (Tag Closed Cup)
Evaporation rate	Very fast
Flammability (solid, gas)	Not available

#### Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%):	Not applicable
Upper explosion limit	Not available.
Lower explosion limit	Not available.

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Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity (kinematic)	Not available
Percent volatile	Not available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	This product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flame and sparks. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride, hydrogen chloride and possibly phosgene. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents; metals; powdered metal; amines, strong bases
Hazardous decomposition products	Hydrogen fluoride; hydrogen chloride; trace amounts of chlorine and phosgene

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Likely routes of exposure

Inhalation	May cause drowsiness, dizziness, headache, nausea and vomiting
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Skin contact	Causes skin irritation
Eye contact	Direct contact with eyes may cause temporary irritation
Ingestion	Single dose oral toxicity is considered extremely low. Swallowing large amounts may cause injury if aspirated into lungs as it can be rapidly absorbed through the lungs and result in injury to other body systems.
Systems related to the physical, chemical and toxicological characteristics	May cause drowsiness, dizziness, headache, nausea, vomiting, irritation of the nose and throat, irritation of eyes and mucous membranes and irritation of skin I May cause redness and pain.

**Information on toxicological effects**

Acute toxicity

Narcotic effects

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
decafluoropentane (CAS 138495-42-8)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Inhalation</b>		
LC50	Rat	11058 mg/kg, 4 hours calculated
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
tetrachloroethylene (CAS 127-18-4)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 3228 mg/kg
<b>Inhalation</b>		
<b>Vapor</b>		
LC50	Rat	3786 ppm, 4 hours
<b>Oral</b>		



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LD50	Rat	> 2629 mg/kg
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\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

tetrachloroethylene (CAS 127-18-4)	2A Probably carcinogenic to humans
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**US. National Toxicology Program (NTP) Report on Carcinogens**

tetrachloroethylene (CAS 127-18-4)	Reasonably anticipated to be a human carcinogen
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**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Not classified
Aspiration hazard	Based on available data, the classification criteria are not met.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**SECTION 12. ECOLOGICAL INFORMATION**

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**Ecotoxicity** Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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decafluoropentane (CAS 138495-42-8)

**Aquatic**

Acute

Crustacea	EC50	Water flea (Daphnia magna)	11.7 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	13 mg/l, 96 hours

tetrachloroethylene (CAS 127-18-4)

**Aquatic**

Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	4.73 – 5.27 96 hours
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\*Estimates for product may be based on additional component data not shown.

Persistence and degradability Not available

Bioaccumulative potential Not available

Partition coefficient n-octanol / water (log Kow)

decafluoropentane 2.7, Pow at 20 °C

tetrachloroethylene 2.88

**Mobility in soil** Not available

**Other adverse effects** No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal of waste from residues / unused products

This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

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with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code D309: Waste Tetrachloroethylene  
F001: Waste Tetrachloroethylene – spent halogenated solvent used in degreasing  
F002: Waste Tetrachloroethylene – spent halogenated solvent

**US RCRA Hazardous Waste U List: Reference**

tetrachloroethylene (CAS 127-18-4)	U210
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**SECTION 14. TRANSPORT INFORMATION****DOT**

UN number	UN1950
UN proper shipping name	Aerosols, poison, limited quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	6.1(PGIII)
Label(s)	2.2, 6.1
Packing group	Not applicable
Special precautions for user	Forbidden from transportation by air
Packaging non-bulk	None
Packaging bulk	None

**IATA**

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III
Transport hazard class(es)	
Class	2.2
Subsidiary risk	6.1(PGIII)

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Packing group	Not applicable
ERG Code	2P
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions
Cargo aircraft only	Allowed with restrictions
<b>IMDG</b>	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2
Subsidiary risk	6.1(PGIII)
Packing Group	Not applicable.
Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

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**SECTION 15. REGULATORY INFORMATION*****US Federal Regulations***

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

decafluoropentane (CAS 138495-42-8)      1.0 % One-time export notification only

**SARA 304 Emergency release notification**

Not regulated

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

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Not regulated

**US EPCRA (SARA Title III) Section 313 – Toxic Chemical: Listed substance**

tetrachloroethylene (CAS 127-18-4)

**CERCLA Hazardous Substance List (40 CFR 302.4)**

tetrachloroethylene (CAS 127-18-4) Listed

**CERCLA Hazardous Substances: Reportable Quantity**

tetrachloroethylene (CAS 127-18-4) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

tetrachloroethylene (CAS 127-18-4)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)**

Not regulated

**Food and Drug Administration (FDA)**

Not regulated

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Section 311/312

**Immediate Hazard**

Yes

**Hazard Categories**

Delayed Hazard – Yes  
Fire Hazard – No  
Pressure Hazard – Yes  
Reactivity Hazard – No

**SARA 302**

No hazardous substance

**US State Regulations****US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.(a))**

tetrachloroethylene (CAS 127-18-4)

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### US. New Jersey Worker and Community Right to Know Act

carbon dioxide (CAS 124-38-9)

tetrachloroethylene (CAS 127-18-4)

### US. Massachusetts Right to Know – Substance List

carbon dioxide (CAS 124-38-9)

tetrachloroethylene (CAS 127-18-4)

### US. Pennsylvania Worker and Community Right to Know Law

carbon dioxide (CAS 124-38-9)

tetrachloroethylene (CAS 127-18-4)

### US. Rhode Island Right to Know Law

carbon dioxide (CAS 124-38-9)

tetrachloroethylene (CAS 127-18-4)

### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

### US – California Proposition 65 – CRT: Listed date/Carcinogenic substance

tetrachloroethylene (CAS 127-18-4)                      Listed: April 1, 1988

### Volatile organic compounds (VOC) regulations

#### EPA

VOC content

(40 CFR, 0 % 51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

#### State

*Consumer products*

This product is regulated as an Energized Electrical Cleaner for the following states:

California, Connecticut, Delaware, District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Virginia. It is for energized equipment use only. It is not to be used for motorized vehicle maintenance or their parts. This product is compliant for use in all 50 states.

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**VOC content (CA)** 0 %

**VOC content (OTC)** 0 %

### International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s).

### SECTION 16. OTHER INFORMATION

**NFPA:**

**HMIS III:**

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<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0=not significant, 1=Slight, 2=Moderate,  
3=High, 4-Extreme, \*=Chronic

**Sources of key data used to compile the SDS**

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and the European Chemicals Agency, <http://echa.europa.eu/>

**Revision Date**

01/01/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end-product, if applicable.