

# **SAFETY DATA SHEET**

### FLYERS UNIVERSAL TRACTOR FLUID

### Section 1. Identification

GHS product identifier

: FLYERS UNIVERSAL TRACTOR FLUID

- Other means of identification
- : Not available.

Relevant identified uses of the substance or mixture and uses advised against		
Hydraulic fluid.		
Supplier's details	: Flyers Energy	
	2360 Lindbergh Street	

	Auburn, CA 95602 (530) 885-0401
Emergency telephone number (with hours of operation)	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3877 (24/7)

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements Precautionary statements	: Causes serious eye irritation.
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

**Storage** 

**Disposal** 

Hazards not otherwise classified

- present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- : Not applicable.
- : Not applicable.
- : None known.



# Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture : Not available.

#### CAS number/other identifiers

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	%	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	10 - 30	64742-54-7
Distillates (petroleum), solvent-dewaxed heavy paraffinic	10 - 30	64742-65-0
Distillates (petroleum), hydrotreated middle	1 - 5	64742-46-7
Zinc Alkyldithiophosphate	1 - 5	68649-42-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

Description of necessary first aid measures		
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Maintain an open airway. Get medical attention if symptoms occur.	
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur.	

### Most important symptoms/effects, acute and delayed

Potential acute healt	<u>h effects</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: Irritating to mouth, throat and stomach.	
Over-exposure signs/symptoms		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	



Ingestion	: No known significant effects or critical hazards.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> or foam.
Unsuitable extinguishing media	: Do not use direct water stream.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products Special protective actions for fire-fighters	: Aldehydes, Sulfur oxides, Oxides of carbon, Incomplete combustion products, Smoke, Fume.
	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**For non-emergency**: Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate personnel respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders :	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions :	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains
	and sewers. Inform the relevant authorities if the product has caused environmental
	pollution (sewers, waterways, soil or air).
Methods and materials for conta	inment and cleaning up
Spill :	Stop leak if without risk. Move containers from spill area. Approach release from upwind.

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



# Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 4/2014). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2013). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist OSHA PEL (United States, 2/2013). TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 4/2014). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2013). STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Mist TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Mist TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Mist

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.



Skin protection

Hand protection	<ul> <li>Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.</li> </ul>
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Amber.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not available.
Melting point/Freezing point	: -36°C (-32.8°F)
Boiling point	: >316°C (>600.8°F)
Flash point	: Open cup: >198°C (>388.4°F) [Cleveland.]
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.9% Upper: 7%
Vapor pressure	: <0.013 kPa (<0.1 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: 0.884
Solubility	: Negligible in water.
Partition coefficient: n- octanol/water	: >3.5
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Kinematic (room temperature): 0.096 cm <sup>2</sup> /s (9.6 cSt) Kinematic (40°C (104°F)): 0.55 cm <sup>2</sup> /s (55 cSt)



### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (heat, spark or flame).
Incompatible materials Hazardous	: Reactive or incompatible with the following materials: oxidizing materials.
decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), solvent- dewaxed heavy paraffinic	LD50 Dermal	Rabbit	>5000 mg/kg	-
51	LD50 Oral	Rat	>5000 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc Alkyldithiophosphate	Eyes - Irritant	Rabbit	-	-	-

### **Sensitization**

**Acute toxicity** 

There is no data available.

#### **Mutagenicity**

There is no data available.

#### Carcinogenicity

There is no data available.

**Reproductive toxicity** 

There is no data available.

#### **Teratogenicity**

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

Name	Result
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1



# Section 11. Toxicological information

Information on the likely routes of exposure	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics		
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	

### Delayed and immediate effects and also chronic effects from short and long term

exposure Short term exposition	<u>ure</u>	
Potential immediate effects	: No known significant effects or critical hazards.	
Potential delayed effects Long term exposure	: No known significant effects or critical hazards.	
Potential immediate effects	: No known significant effects or critical hazards.	
Potential delayed effects	: No known significant effects or critical hazards.	
Potential chronic health effects		
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	

### Numerical measures of toxicity

Acute toxicity estimates

There is no data available.



# Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute EC50 1 to 5 mg/L Acute EC50 1 to 1.5 mg/L Chronic LC50 1 to 5 mg/L	Crustaceans	96 hours 48 hours 96 hours

### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
FLYERS UNIVERSAL TRACTOR FLUID	>3.5	-	low

### Mobility in soil

Soil/water partition	: There is no data available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

your trusted partners for global regulatory (888) 673-7776

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
SDS <sup>pro</sup>	- <u>()</u> -()		8/11



# Section 14. Transport information

Additional information	-	-	-

**AERG** : Not applicable.

**Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

.S. Federal regulations	: TSCA 8	(a) PAIR: 2	Zinc Alkyldith	iophosphate			
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.						
	Clean	Water Act	(CWA) 307:	Toluene; Zinc	: Alkyldithioph	osphate	
	Clean	Water Act	(CWA) 311:	Toluene			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not liste	ed					
Clean Air Act Section 602 Class I Substances	: Not liste	ed					
Clean Air Act Section 602 Class II Substances	: Not liste	ed					
DEA List I Chemicals (Precursor Chemicals)	: Not liste	ed					
DEA List II Chemicals (Essential Chemicals)	: Not liste	ed					
SARA 302/304							
Composition/information	on ingredie	ents					
No products were found.							
SARA 304 RQ SARA 311/312	: Not app	licable.					
Classification	: Immediate (acute) health hazard						
Composition/information	on ingredie	ents					
Name		%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Zinc Alkyldithiophosphate		1 - 5	No.	No.	No.	Yes.	No.



# Section 15. Regulatory information

U	7		
	Product name	CAS number	%
Form R - Reporting requirements	Zinc Alkyldithiophosphate	68649-42-3	1 - 5
Supplier notification	Zinc Alkyldithiophosphate	68649-42-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State	regu	lations	

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: Distillates (petroleum), solvent-dewaxed heavy paraffinic; Zinc Alkyldithiophosphate</li> </ul>
Pennsylvania	: The following components are listed: Zinc Alkyldithiophosphate

### California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	•	Maximum acceptable dosage level
Toluene	No.	Yes.	7000 μg/day (ingestion) 13000 μg/day (inhalation)

### International regulations

International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

# Section 16. Other information

### History

Date of issue mm/dd/yyyy	: 05/01/2018
Version	: 1
Prepared by	: Flyers Energy, LLC



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Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

