

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** 160615  
**Product Name:** OP-T-LUBE DR-5001  
**Category:** Lubricant with Defoamer  
**Company Name:** OptiFrac Chemical Services  
 1000, 639 -5th Avenue SW  
 Calgary, AB T2P 0M9  
**Phone Number:** (403)237-8900  
**Emergency Contact:** 24 hour Emergency #: (CANUTEC) (613)996-6666

### 2. HAZARDS IDENTIFICATION

**Aspiration Toxicity, Category 1**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Specific Target Organ Toxicity (single exposure), Category 3**  
**Skin Corrosion/Irritation, Category 2**



**GHS Signal Word:** **Danger**  
**GHS Hazard Phrases:** H304 - May be fatal if swallowed and enters airways.  
 H320 - Causes eye irritation.  
 H335 - May cause respiratory irritation.  
 H315 - Causes skin irritation.  
**GHS Precaution Phrases:** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P362+364 - Take off contaminated clothing and wash it before reuse.  
**GHS Response Phrases:** P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 - Do NOT induce vomiting.  
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+313 - If eye irritation persists, get medical advice/attention.  
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 - Call a POISON CENTER/doctor if you feel unwell.  
 P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
 P332+313 - If skin irritation occurs, get medical advice/attention.  
**GHS Storage and Disposal Phrases:** P405 - Store locked up.  
 P501 - Dispose of contents/container to meet local and federal regulations.

**Hazard Rating System:**

HEALTH	1
FLAMMABILITY	1
PHYSICAL	0
PPE	C

**HMIS:**



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**Potential Health Effects  
(Acute and Chronic):** No data available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredient(s)	Concentration
68440-27-7	Fatty acids, tall-oil, sulfurized	50.0 -85.0 %
64742-47-8	Hydrotreated light distillate (petroleum)	20.0 -45.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid Procedures:

<b>In Case of Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek medical advice/attention immediately.
<b>In Case of Skin Contact:</b>	Wash exposed area with soap and water thoroughly. Remove contaminated clothing and wash before reuse. Seek medical advice/attention if irritation develops or persists.
<b>In Case of Eye Contact:</b>	Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes. Seek medical advice/attention if irritation develops or persists.
<b>In Case of Ingestion:</b>	Rinse mouth with water. Do NOT induce vomiting. Never give anything to an unconscious person. Seek medical advice/attention immediately. Potential for aspiration if swallowed.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	> 200.00 F (93.3 C) Method Used: ASTM D Closed Cup
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	NA
<b>Suitable Extinguishing Media:</b>	Product is not flammable under normal conditions. Use extinguishing media suitable for source of the fire. Use water spray to cool the containers exposed to the fire.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool.
<b>Flammable Properties and Hazards:</b>	No data available.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Wear appropriate PPE equipment. See section 8.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Collect liquid by absorbing with an inert material (e.g. vermiculite, dry sand, earth), clean contaminated surface thoroughly, and place in a container for disposal according to local regulations.



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### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing product vapors or mists. Use with adequate ventilation. Keep containers closed when not in use.
<b>Precautions To Be Taken in Storing:</b>	Store in a dry, cool, and well ventilated area away from heat sources and incompatible materials. Keep containers securely sealed. Protect containers from physical damage and check regularly for leaks.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
68440-27-7	Fatty acids, tall-oil, sulfurized	No data.	No data.	No data.
64742-47-8	Hydrotreated light distillate (petroleum)	No data.	TLV: 200 mg/m3	No data.
<b>Respiratory Equipment (Specify Type):</b>	No Specific requirements. A risk assessment should be made to determine if respiratory protection is necessary.			
<b>Eye Protection:</b>	Safety glasses with side shields.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or airborne exposure limits, whichever is lower. Local exhaust is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area.			
<b>Work/Hygienic/Maintenance Practices:</b>	An eye wash station should be accessible in the immediate area of use. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [X] Liquid [ ] Solid	
<b>Appearance and Odor:</b>	Brown to Black. Mild Odor.	
<b>Freeze Point/Pour Point:</b>	< -40.00 F (-40.0 C)	
<b>Boiling Point:</b>	No data.	
<b>Autoignition Pt:</b>	NA	
<b>Flash Pt:</b>	> 200.00 F (93.3 C) Method Used: ASTM D Closed Cup	
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.	
<b>Specific Gravity (Water = 1):</b>	0.926+/-0.05	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Evaporation Rate:</b>	No data.	
<b>Solubility in Water:</b>	insoluble	



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Percent Volatile: No data.

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** ignition sources.  
**Incompatibility - Materials To Avoid:** Strong oxidizing agents.  
**Hazardous Decomposition or Byproducts:** Nitrogen oxides, Carbon monoxide, oxides of sulfur.  
Will occur [ ] Will not occur [ X ]  
**Possibility of Hazardous Reactions:** No data available.  
**Conditions To Avoid - Hazardous Reactions:**

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** The product has not been tested. Any statements on toxicology have been derived from products of a similar structure and composition.  
**Carcinogenicity/Other Information:** CAS# 64742-47-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Ingredient(s)	NTP	IARC	ACGIH	OSHA
68440-27-7	Fatty acids, tall-oil, sulfurized	n.a.	n.a.	n.a.	n.a.
64742-47-8	Hydrotreated light distillate (petroleum)	n.a.	n.a.	A4	n.a.

### 12. ECOLOGICAL INFORMATION

**General Ecological Information:** The product has not been tested. Any statements on eco-toxicology have been derived from products of a similar structure and composition.  
**Results of PBT and vPvB assessment:** CAS# 64742-47-8:  
LC50, Bluegill (*Lepomis macrochirus*), 5900. UG/L, 4 D, Mortality, Water temperature: 18.00 C C, pH: 7.50.  
Result:  
Age Effects.  
- Report to Nalco Chemical Company: Four-Day Static Fish Toxicity Studies with D-2303 in Rainbow Trout and Bluegills: IBT No. A615, Hamlin, J., 1971

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

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### 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name: Not Regulated.  
 DOT Hazard Class:  
 UN/NA Number:

**LAND TRANSPORT (Canadian TDG):**

TDG Shipping Name: Not Regulated.  
 UN Number:  
 Hazard Class: TDG Classification:

**MARINE TRANSPORT (IMDG/IMO):**

IMDG/IMO Shipping Name: Not Regulated.

**AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name: Not Regulated.

### 15. REGULATORY INFORMATION

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

CAS #	Ingredient(s)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68440-27-7	Fatty acids, tall-oil, sulfurized	No	No	No
64742-47-8	Hydrotreated light distillate (petroleum)	No	No	No

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Acute (immediate) Health Hazard
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Chronic (delayed) Health Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Fire Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Sudden Release of Pressure Hazard
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Reactive Hazard

CAS #	Ingredient(s)	Canadian NPRI	Canadian IDL	Canadian DSL
68440-27-7	Fatty acids, tall-oil, sulfurized	No	No	Yes
64742-47-8	Hydrotreated light distillate (petroleum)	Yes	No	Yes

CAS #	Ingredient(s)	Other US EPA or State Lists
68440-27-7	Fatty acids, tall-oil, sulfurized	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
64742-47-8	Hydrotreated light distillate (petroleum)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

CAS #	Ingredient(s)	International Regulatory Lists
68440-27-7	Fatty acids, tall-oil, sulfurized	
64742-47-8	Hydrotreated light distillate (petroleum)	

**Canadian WHMIS Classification:**



CLASS D, DIVISION 2, SUBDIVISION B: Toxic Materials (Mutagenicity, skin sensitization, irritation, etc.)



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**Regulatory Information:** Canadian regulations: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### 16. OTHER INFORMATION

**Revision Date:** 09/21/2015

**Additional Information About This Product:** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.