



# WIRE ROPE AND CHAIN LUBRICANT

## DESCRIPTION

Wire ropes contain numerous moving parts that require lubrication. Each time the rope bends or flexes, the internal strands rub together. **WRL™** coats these strands to prevent friction and wear. This results in longer life, less downtime for rope changes and more production.

**JET-LUBE's WIRE ROPE and CHAIN LUBRICANT** quickly penetrates to the cores. This ensures that the rope is lubricated throughout while providing a nondrying, nontacky film on the outside of the rope that protects outer strands from corrosion, as well as lubricating the wire rope drums and sheaves.

**WRL** is easily pumpable at temperatures down to -25°F (-32°C). Its nondrying film remains flexible in most extreme weather conditions, which eliminates flaking and peeling.

- Lead Free
- Prolongs wire rope life
- Nontacky
- Pumpable
- Displaces water
- Protects against rust and corrosion
- Flexible finish
- NSF/USDA Registered H-2

## APPLICATIONS

**WRL** can be used to lubricate all sizes of wire rope, as well as chains, leaf springs and other applications where a penetrating oil is needed. It may be applied by hand or automatic lube system.

<b>SERVICE RATING</b> -25°F (-32°C) to 350°F (175°C)
<b>WRL Wire Rope Lubricant</b> Contains no 1.1.1 Trichloroethane, Freon TF or other ozone harming ingredients.
<b>RECOMMENDED APPLICATION RATE:</b> <u>Drip System:</u> 1st week - 3 drops per minute, per inch diameter rope. 2nd week & thereafter - 1 drop per minute, per inch diameter rope. <u>Spray System:</u> Every 15 minutes for 30 seconds (on payout only).

## PRODUCT CHARACTERISTICS

	<b>AEROSOL</b>	<b>BULK</b>
Fluid Type	Petroleum Oil	Petroleum Oil
Specific Gravity	0.83	0.88
Density (lbs/gal)	6.9	7.4
Viscosity, (ASTM D-445)		
cSt @ 40°C	3.5 - 4.5	19.8 - 24.2
cSt @ 100°C Typ.	NA	4.1
SUS @ 100°F (calculated)	NA	95 - 115
SUS @ 210°F (calculated)	NA	39
Viscosity Index, (ASTM D-2270)	NA	>70 typical
Pour Point, (ASTM D-97)	<40°F(-40°C)	<-25°F(-32°C)
Rust Test, (ASTM D-665)	A. Pass	A. Pass
Shell 4-Ball EP Test (ASTM D-2783)		
Weld Point, kfg	NA	250
Flash Point (ASTM D-92)	>176°F(79°C)	>330°F(166°C)
SAE Grade	NA	10
ISO Grade	NA	22
(ISO 3448 or ASTM D-2422)		
Color/Appearance	Amber	Amber
Spray Pattern	Tight Stream	NA
Propellant	Carbon Dioxide	NA
Solvent Type	Petroleum Distillate	NA
Dielectric Strength (ASTM D-877)	35 kv	NA

## PACKAGING

Code No.	Container Size	Container
34041	12 oz.	Aerosol
34010	7 lb.	Pail
34020	35 lb.	Pail
34024	110 lb.	Drum
34029	375 lb.	Drum

## LIMITED WARRANTY

Jet-Lube, Inc. makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in Jet-Lube, Inc. materials and workmanship.

This Limited Express Warranty is expressly in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of Jet-Lube, Inc.

The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and Jet-Lube, Inc. shall not be liable for incidental or consequential damages.

## CORPORATE LOCATIONS

Houston, Texas—World Headquarters

Maidenhead, England

Edmonton, Canada

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# JET-LUBE, INC.

## MATERIAL SAFETY DATA SHEET

**Product Name:** WRL®  
**Chemical Family:** Petroleum based lubricating oil  
**Use:** Wire rope and chain lubricant.

**Manufacturer/Supplier:** JET-LUBE, INC.  
**Address:** 4849 Homestead Rd., Ste. #200  
 Houston, TX, 77028 USA **Phone:** 713-674-7617  
**Emergency Phone:** 713-674-7617 **Fax:** 713-678-4604  
**Chemtrec 24 hours (USA):** 800-424-9300

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Petroleum Distillate (aerosol)	64742478	40-60	TWA 400 ppm	UN	UN
Petroleum Oil	64742525	60-100	Oil mist TWA-5mg/M <sup>3</sup>	N/A	N/A
Carbon Dioxide Propellant	124389	2-5	5,000 ppm	5,000 ppm	
Proprietary Additives		5-10	10,000 ppm	5,000 ppm	

**Main Hazards—Health Effects**

**Eyes:** May cause irritation. **Inhalation:** Oil mist may line breathing passages with oil making breathing difficult. **Ingestion:** May cause diarrhea. **Skin:** May irritate the skin after prolonged periods of contact.

**Eyes:** Flush with water until all residual material is gone. If irritation persists, seek medical help. **Inhalation:** Clear air passage. If respiratory difficulty continues, seek medical help. **Ingestion:** Wash out mouth immediately. Consult physician. **Skin:** Wash thoroughly with hand cleanser, followed by soap & water. Contaminated clothing should be dry cleaned before reuse.

**Extinguishing Media:** Foam, dry powder, Halon®, carbon dioxide, sand, earth & water mist.  
**Unsuitable Extinguishing Media:** Water jet. **Protective Equipment for Fire fighting:** Self-contained breathing apparatus.

**Personal Precautions:** Wear gloves & protective overalls. **Environmental Precautions:** Do not allow it to enter drains.  
**Spillage:** Scrape up bulk, then wipe up remainder with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth.

**Handling:** No special handling precautions necessary. **Storage:** Do not store at elevated temperatures.

**Respiratory Protection:** None needed. **Hand Protection:** Protective gloves for hypersensitive persons.  
**Eye Protection:** Glasses, if applied to parts in motion. **Body Protection:** Overalls.

**Physical State:** Low viscosity fluid **Color:** Pale Yellow/Amber **Odor:** Petroleum **pH:** Neutral **OAR Value:** Aero 5 Bulk N/A  
**Boiling Range/Point °F (°C):** Aero >300 (149) Bulk <600 (316) **Melting Point °F (°C):** -40 (-40) **Vapor Density:** >5  
**Flash Point (COC) °F (°C):** Aero >176 (79) Bulk >500 (260) **Autoignition Temp °F (°C):** Aero >444 (229) Bulk >500 (260)  
**Explosive Properties:** LEL: 0.9% UEL: 7% **Evaporation Rate (Butyl Acetate):** <0.01 **Partition Coefficient (Log Pow):** N/A  
**Vapor Pressure (kPa):** Aero <0.05 Bulk <0.01 **V.O.C. Content:** Aero 65 Max Bulk Nil **Density (g/cm<sup>3</sup>):** Aero 0.83 Bulk 0.90  
**Flammability:** Not flammable at ambient temp. **Oxidizing Properties:** None **Water Solubility:** Aero Emulsifies w/agitation Bulk Nil

**Stability:** Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temp. **Materials to Avoid:** Strong inorganic & organic acids, oxidizing agents. **Hazardous Decomposition Products:** Burning generates smoke, airborne soot, hydrocarbons & oxides of carbon, sulfur, nitrogen & phosphorous. Residue mainly comprised of soot.

**Acute Toxicity:** Not known. **Irritancy—Skin:** Very mild. **Skin Sensitization:** Not known. **Subacute/Sub-chronic Toxicity:** Not known.  
**Genotoxicity:** None known. **Chronic Toxicity:** None known. **California Prop 65:** N/A **Carcinogen:** NTP: No **IARC:** No **OSHA:** No  
**EC Classification (67/548/EEC):** No **LC-50:** >2000mg/kg—extrapolated from component data. **LD-50:** Not applicable

**Possible Effects:** In extreme cases, may generate oil fractions that could act as a marine pollutant. Occurrences of this nature are highly unlikely. **Behavior:** Relatively well behaved. Bioaccumulation potential nil. **Environmental Fate:** Due to its fluid nature & specific gravity, this product will float & spread across water making it a nuisance contaminant. It's not thought to be toxic to marine or land organisms.


**Product Disposal:** Do not incinerate. Contact waste disposal company or local authority for advice. **Container Disposal:** Pails without liner—see Product Disposal section above. **Pails with plastic liner—**pail may only be disposed of via standard waste disposal services, recycled or reused. **Liner—**see Product Disposal section above.

**D.O.T.:** Consumer Commodity ORM-D **UN No.:** Aero Div. 2.1 1950 Bulk Nonhazardous **Air Transport (ICAO & IATA):** Bulk Nonhazardous Aero Hazardous-pressurized container **Sea Transport (IMO & IMDG):** Aero Class 2, 1950 Bulk Nonhazardous **Road & Rail Transport (ADR/RID):** Nonhazardous

**Labeling Information:** None needed **EC Annex 1 Class:** N/A **R Phrases:** Aero N/A Bulk R22-harmful if swallowed (could block passages) **SARA 311/312:** None **S Phrases:** Aero S-3 keep cool, S-16 keep away from ignition sources. Bulk N/A as known.  
**Ozone Depleting Chemicals:** N/A **TSCA:** All components are listed. **WHMIS (Canada):** Aero Class B, Div. B-3 Bulk Not controlled.  
**Canadian DSL:** All components listed. **40 CFR Part 372 (SARA Section 313):** N/A  
**RCRA Hazard Class:** Nonhazardous **CERCLA:** Nonhazardous **TSCA 12B Components:** None

SDS first issued. SDS data revised.

**New Jersey Right To Know:** See Section II

**Signature:**   
**Prepared by:** Donald A. Oldiges  
**Date Issued:** August 8, 2006

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LEGEND	
I.	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY
II.	COMPOSITION INFORMATION ON INGREDIENTS
III.	HAZARDS IDENTIFICATION
IV.	FIRST AID MEASURES
V.	FIRE FIGHTING MEASURES
VI.	ACCIDENTAL RELEASE MEASURES
VII.	HANDLING AND STORAGE
VIII.	EXPOSURE CONTROL/PERSONAL PROTECTION
IX.	PHYSICAL AND CHEMICAL PROPERTIES
X.	STABILITY AND REACTIVITY
XI.	TOXICOLOGICAL INFORMATION
XII.	ECOLOGICAL INFORMATION
XIII.	WASTE DISPOSAL
XIV.	TRANSPORT INFORMATION
XV.	REGULATORY INFORMATION
XVI.	OTHER INFORMATION

**HMIS SYMBOL**

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PPI	B

**NFPA SYMBOL**

