



**WIRE LINE DRESSING
CABLE & OPEN ROLLER CHAIN LUBRICANT**

DESCRIPTION

JET-LUBE'S WLD™ is highly tenacious, adhesive lubricant containing both molybdenum disulfide (MoS₂) and graphite, and is specially formulated for use on wire lines, cable and open roller chains. WLD penetrates the outer strands of wire rope and cable, displacing moisture, and permeating to the core of the rope or cable, lubricating and protecting each strand.

As the carrier solvent of WLD evaporates, a thin, flexible film of lubricant is formed. This barrier film prevents the incursion of moisture and dirt between the strands, and contains rust and corrosion inhibitors to prevent both abrasive and corrosive wear, significantly prolonging the life of cable and wire rope. The barrier film of WLD protects against the formation of rust and prevents "rust binding", which reduces cable flexibility and life; increasing friction and wear. The barrier also offers protection against corrosion, preventing pitting of wire strands that can cause fatigue failure in the cable or rope. WLD also performs effectively in the presence of high humidity or salt water.

WLD resists being thrown and dripping off the cable or rope even at the highest operating speeds. Because it is a "thin film" lubricant, constant replenishment of the lubricant is not required, thus reducing the cost of lubricant application.

- Penetrates
- Replaces moisture
- Lubricates
- Prevents rust/corrosion
- Will not throw or run off
- Does not attract dirt or dust

APPLICATIONS

WLD may be used on crane and drag line hoist and drag lines, elevator hoist lines; sprayed directly on sheaves, or winding drum faces; oilfield wire lines, offshore rig anchor cables, chain vises, corrosion barrier for iron surfaces, drilling lines, mast hoisting cables, or any wire rope cable that operates at the extremes of operating speeds and loads in harsh environments.

JET-LUBE'S WLD may also be used on open roller drive chains in both oilfield and industrial applications; on motorcycle or snowmobile drive chains; conveyor drive chains; or any open roller chain.

PRODUCT CHARACTERISTICS

Thickener	Organo Clay Resins
Fluid Type	Petroleum Oil & Resins
Color/Appearance	Black Semi-Fluid
Dropping Point of Dried Film (ASTM D-566)	350°F (177°)
Specific Gravity	1.10
Density (lbs/gal)	9.15
Oil Separation	
Wt. % Loss @ 212°F (100°C)	>3.0
Flash Point (ASTM D-92)	>430°F (221°C)
Viscosity, Brookfield (ASTM D-2196)	64,000 - 120,000 cps
#7 Spindle, 10 rpm @ 77°F (25°C)	
Additive Type	Organic EP/AW/R&O/ Graphite/MoS ₂
Copper Strip Corrosion (ASTM D-4048)	1A
Shell 4-Ball (ASTM D-2596)	
Weld Point, kgf	620
Load Wear Index	>85
Industry Specifications	
5 Gallon Pail	NSN 9150-01 179-0228
Service Rating	-25°F (-32°C) to 350°F (175°C)

PACKAGING

Code No.	Container Size	Container
28541	12 oz.	Aerosol
	See Aerosol MSDS/Bulletin	
28516	35 lb.	5 Gal. Pail
28524	120 lb.	Drum
28529	400 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
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Maidenhead, England

Edmonton, Canada

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JET-LUBE, INC.

MATERIAL SAFETY DATA SHEET

I **Product Name:** WLD™
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
Outside the USA: 703-527-3887

Hazardous Components	CAS No.	Wt%	OSHA PEL	ACGIH TLV	Other Limits of Exposure
Petroleum oil	64741964/64742161	100	Oil Mist TWA-5mg/M ³	N/A	STEL: N/A

II

III **Main Hazards—Health Effects**

Eyes: May cause irritation. **Inhalation:** Viscous nature may block breathing passages if inhaled. **Ingestion:** May cause diarrhea.
Skin: Possible rash for persons with hypersensitivity.

IV **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.

V **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.

VI **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.

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

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

IX **Physical State:** Semi-viscous fluid **Color:** Black **Odor:** Solvent **pH:** Neutral **Boiling Range/Point °F (°C):** >165 (74)
Melting Point °F (°C): UN **Flash Point (COC) °F (°C):** Aero -76 (-60) Bulk 430 (221)
Autoignition Temp °F (°C): Aero UN Bulk >500 (260) **Explosive Properties:** LEL: Aero 8% Bulk 0.9% UEL: Aero 10.5% Bulk 7%
Evaporation Rate (Butyl Acetate): >6.0 **Partition Coefficient (Log Pow):** N/A **Vapor Density:** >1
Vapor Pressure (kPa): Aero 100 Bulk <100 **Percent Volatiles:** Aero 17 max. Bulk 15 **Density (g/cm³):** Aero Bulk 1.10
Flammability: Not flammable at ambient temp. **OAR Value:** Aero 5 Bulk N/A **Oxidizing Properties:** None **Water Solubility:** Nil

X **Stability:** Chemically stable under normal conditions. No photoreactive agents. **Conditions to Avoid:** Powerful sources of ignition & extreme temps. **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.

XI **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:** Aerosol: TCE (carcinogen) **Carcinogen:** NTP: (Aerosol) 2A (1997) **IARC:** (Aerosol) Group 3: Not classifiable as human carcinogen (1997) **ACGIH:** (Aerosol) A5: Not classifiable as human carcinogen **EC Class (67/548/EEC):** No **Allergens:** None known. **LC-50:** >2000mg/kg - extrapolated from component data **LD-50:** N/A


XII **Possible Effects:** May generate oil fractions that could act as a marine pollutant, but is unlikely. **Behavior:** Relatively well behaved. Bioaccumulation potential nil. **Environmental Fate:** Due to its fluid nature and specific gravity, this product will float and spread across water making it a nuisance contaminant. It is not thought to be toxic to marine or land organisms.

XIII **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.

XIV **D.O.T.:** Nonhazardous **UN No.:** Nonhazardous
Road & Rail Transport (ADR/RID): Nonhazardous **Air Transport (ICAO & IATA):** Nonhazardous
Sea Transport (IMO & IMDG): Nonhazardous

XV **Labeling Information:** None needed **EC Annex 1 Class:** N/A **R Phrases:** Aero N/A Bulk R22—harmful if swallowed. **SARA 311/312:** None
S Phrases: Aero S3 keep cool, S16 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. B3 Bulk Not controlled. **Canadian DSL:** All components listed. **TSCA 12B Components:** None **40 CFR Part 372 (SARA Section 313):** TCE (aerol) **CERCLA:** Nonhazardous **RCRA Hazard Class:** Nonhazardous

XVI SDS first issued. SDS data revised. **New Jersey Right To Know:** See Section II

Signature: 
Prepared by: Donald A. Oldiges
Date Issued: March 10, 2009

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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

