

TECH LINE *Coatings*

SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: Polyphen Dry Film Lubricant
Recommended Use: Thin film Lubricating Coating

Manufacturer / Supplier:
 Tech Line Coatings, Inc
 26844 ADAMS AVE.
 MURRIETA, CA 92562
 USA
 Phone/Fax 1-865-773-0599
 www.techlinecoatings.com

Part Number: TLML (CA)

Restrictions on Use:

Keep out of reach of children.
 For Industrial Use Only
 Not recommended for use on Medical equipment.
 Not recommended for use on Aviation equipment.

Emergency # N. America +1-800-535-5053 Intl. +1-352-323-3500

Section 2 – Hazards Identification

Signal Word: Danger

Symbols:



Hazard Statements:	GHS Classification:	Category
Highly Flammable Liquid and Vapor	Flammable Liquid	2
Harmful if Swallowed	Acute Toxicity Oral	3
Harmful in Contact With Skin	Acute Toxicity Dermal	3
Harmful if Inhaled	Acute Toxicity Inhalation	3
Causes Skin Irritation	Skin Irritation	2
Causes Serious Eye Irritation	Eye Irritation	2A
Suspected of causing cancer	Carcinogenicity	2
Causes damage to organs (Eyes, Kidney, Liver, Central Nervous System, Heart)	Specific Target Organ Toxicity Single Exposure	2
May cause drowsiness or dizziness		
May cause damage to organs (Pancreas, Spleen)	Specific Target Organ Toxicity Repeated or Prolonged Exposure	2
May cause damage to organs (Kidney, Liver, Central Nervous System, Pancreas, Spleen) through prolonged or repeated exposure.		

Precautionary Statements:

Keep away from heat / sparks / open flames / hot surfaces. - No Smoking. Ground / bond container and receiving equipment. Use explosion proof electrical / ventilating / lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

In case of fire use alcohol-resistant foam, dry chemical or carbon dioxide

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Wear protective gloves / protective clothing (chemical proof). Wear eye protection and face protection. Wash hands, face

and any exposed skin thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat drink or smoke when using this product. Do not breath fumes / mist / vapors / spray. Use only outdoors or in a well ventilated area.

If swallowed: immediately call a poison center / doctor for medical advice. Rinse mouth with water.

If on skin: wash with plenty of water. Call a poison center / doctor if you feel unwell or if irritation occurs. Immediately take off all contaminated clothing and wash it before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center / doctor for medical advice.

If in eyes: Rinse cautiously in water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists get medical advice / attention.

If exposed or concerned: Get medical advice / attention, from a poison center / doctor.

Dispose of Contents / container in accordance with regulations in your area. See section 13 for additional information.

Section 3 – Composition / Information On Ingredients

<u>Component Name</u>	<u>Common Name / Synonyms</u>	<u>CAS#</u>	<u>% of Weight</u>
Proprietary Ingredient (1)		Trade Secret	Trade Secret
Proprietary Ingredient (2)		Trade Secret	Trade Secret
Proprietary Ingredient (3)		Trade Secret	Trade Secret
Ethanol	Ethyl Alcohol	64-17-5	< 10%
Phenol	Hydroxybenzene	108-95-2	< 3%
Molybdenum Disulfide	MoS ₂	1317-33-5	Trade Secret
Methanol	Methyl Alcohol	67-56-1	< 2%
Formaldehyde		50-00-0	0.1 - 0.2%

Composition Comments US GHS: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Section 4 – First Aid Measures**General advice:**

- Consult a physician. Show this Safety Data Sheet to the doctor in attendance. Move out of dangerous area.

After EYE Contact:

- Immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

After SKIN Contact:

- Remove contaminated clothing without delay. Flush skin thoroughly with water. Do not reuse clothing without laundering.

After INHALATION:

- Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

After SWALLOWING:

- Call a physician immediately, ONLY induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

See section 11 for additional information

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Extinguishing Media:

- Water spray, alcohol resistant foam, CO₂, dry chemical, dry sand. Cool closed containers exposed to fire with water spray.

Special Fire Fighting Procedures:

- Use full protective equipment, including self contained breathing apparatus **Unusual Fire And Explosion Hazards:**
- During emergency conditions, overexposure to decomposition products may cause a health hazard. Hazardous polymerization may take place if exposed to fire conditions. Water runoff can cause environmental damage, dike and collect water used to fight fire.

Specific Hazards Arising from the Chemical:

- Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.
- Containers may explode when heated.

Section 6 – Accidental Release Measures

Methods for Containment and Clean Up

- Turn off all sources of heat or ignition.
- Soak up with inert absorbent material.
- Keep in suitable, marked and closed containers for disposal.
- Use spark-proof tools and explosion-proof equipment.
- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
- NIOSH Approved Respirator
- Gloves
- Safety Glasses
- Stop leak if you can do so without risk.
- Do not allow material to be released into the environment.
- Retain all contaminated water for removal and treatment. DO NOT flush to sewer.

Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

Section 7 – Handling And Storage

Handling:

Do not breathe vapors or mists from spraying. Avoid contact with skin and eyes. Use with adequate ventilation to maintain exposure levels below established exposure limits. Wear personal protective equipment. If required wear an appropriate NIOSH approved respirator with paint prefilter. Use explosion-proof equipment. Do not get in eyes, on skin, or on clothing.

Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Storage:

Store in area suitable for flammable liquids. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from oxidizers, inorganic acids, aldehydes, and isocyanates.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	AIHA (WEEL)
Proprietary Ingredient 1	STEL 250ppm	200 PPM	
Proprietary Ingredient 3			TWA 44.2mg/m3
Ethanol	1000 PPM	1000 PPM	
Molybdenum Disulfide	10 mg/m3	10 mg/m3	
Methanol	200 PPM	200 PPM	
Phenol	5 PPM (SKIN)	5 PPM (SKIN)	
Formaldehyde	CEIL 0.3 ppm	TWA 0.75 ppm STEL 2 ppm	

- Engineering Controls:** Exhaust ventilation.
Showers
Eyewash stations
Use in a well-ventilated area.
- Respiratory Protection:** Use NIOSH approved respirator if TWA/TLV limits are exceeded
- Protective Gloves:** CHEMICAL RESISTANT
- Eye Protection:** SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES
- Other Protective Equipment:** WEAR PROTECTIVE CLOTHING, CHEMICAL RESISTANT OR OTHER PROTECTIVE OUTERWEAR, AVOID CONTACT WITH SKIN OR EYES
- Ventilation:** Local Exhaust: Use To Maintain Below TWA Limits
- Mechanical:** Use Non-Sparking Equipment
- Work / Hygienic Practices:** wash thoroughly after handling product and before eating, drinking or smoking

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Color : Black
- Odor : Strong Alcohol/Solvent Smell
- Odor Threshold: Not Established
- pH : Not Established
- Melting point / Freezing point: Not Established
- Initial boiling point : 131 – 280° F
- Flash point : > 16° F
- Evaporation Rate: Not Established
- Upper/lower flammability or explosive limits: Not Established
- Vapor pressure Not Established
- Vapor density Not Established
- Density 9Lb/Gal

Solubility(ies)	Water: poor
Partition coefficient: n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Decomposition temperature	Not Established
Viscosity	Not Established
Total VOC	<1Lb/Gal

SECTION 10 – STABILITY AND REACTIVITY

Stability:	STABLE
Possibility of hazardous reactions:	Hazardous Polymerization: Will not occur.
Conditions to avoid:	Avoid storage of open containers at elevated temperatures.
Incompatible Materials:	oxidizers, inorganic acids, aldehydes, and isocyanates
Hazardous Decomposition Products:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silicon dioxide. Carbon oxides. Formaldehyde.

SECTION 11 – TOXICOLOGICAL INFORMATION

Potential Health Effects

Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Causes skin irritation.
Eyes	Causes eye irritation.
Acute Toxicity	

Proprietary Ingredient 1	Oral LD50	LD50 Oral – rabbit->5000 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - > 16000 ppm -
Proprietary Ingredient 2	Oral LD50	rabbit - 3705 mg/kg
	Oral LD50	mouse 6000 mg/kg
	Dermal LD50	rabbit >5000mg/kg
Proprietary Ingredient 3	Dermal LD50	rabbit 2000 mg/kg
	LC50	rat 1000 mg/L/ 8hr
Ethanol	Oral LD50	LD50 Oral - rat - 7,060 mg/kg
		Remarks: Lungs, Thorax, or Respiration:Other changes.
	Inhalation LC50	LC50 Inhalation - rat - 10 h - 20000 ppm
	Dermal LD50	no data available
Phenol	Oral LD50	LC50 Inhalation - Rat - 4-hr 4,470 ppm (33.0 mg/l)LD50 Oral - rat - 317.0 mg/kg
		Remarks: Behavioral:Convulsions or effect on seizure threshold.
		LD50 Oral - rat - 410.0 - 650.0 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 8 h - 900 mg/m3
	Dermal LD50	LD50 Dermal - rabbit - 630.0 mg/kg
Molybdenum Disulfide	Oral LD50	no data available

	Inhalation LC50	LC50 Inhalation - rat - 4 h - > 2,820 mg/m ³ Remarks: Lungs, Thorax, or Respiration:Other changes.
	Dermal LD50	no data available
Methanol	Oral LD50	LDLO Oral - Human - 143 mg/kg Remarks: Lungs, Thorax, or Respiration:Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. LD50 Oral - rat - 1,187 - 2,769 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - 4 h - 128.2 mg/l LC50 Inhalation - rat - 6 h - 87.6 mg/l
	Dermal LD50	LD50 Dermal - rabbit - 17,100 mg/kg
Formaldehyde	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	No data available

Skin Corrosion/Irritation

In skin irritation studies, the compound was found to be slightly to moderately irritating.

Serious Eye Damage/Eye Irritation

In eye irritation studies, the compound was found to be slightly to moderately irritating.

Respiratory Or Skin Sensitization

No data available

Germ Cell Mutagenicity

Phenol

In vitro tests showed mutagenic effects

Methanol

Genotoxicity in vitro - Ames test - *S. typhimurium* - with and without metabolic activation – negative

Genotoxicity in vitro - in vitro assay - fibroblast - negative Mutation
in mammalian somatic cells.

Genotoxicity in vivo - mouse - male and female - Intraperitoneal – negative

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)
1 – Group 1: Carcinogenic to humans (Formaldehyde)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Reasonably anticipated to be a human carcinogen (Formaldehyde)
Known to be human carcinogen (Formaldehyde)

OSHA: May Cause Cancer (formaldehyde)

This product contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity Single Exposure

Methanol

Causes damage to organs

Specific Target Organ Toxicity Repeated Or Prolonged Exposure

Phenol

May cause damage to organs through prolonged or repeated exposure.

Proprietary Ingredients- May cause narcotic effects

Aspiration Hazard

No data available

SECTION 12 – ECOLOGICAL INFORMATION

General Comments: Do not allow material to be released into the environment without proper governmental permits

Environmental Toxicity:

Proprietary Ingredient 1

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) – 295-348 mg/l - 96 h

Toxicity to daphnia and other aquatic
120mg/L 72 hrs

EC50 - Daphnia magna (Water flea) – 1026.7 mg/l - 48 h

Algae IC50 –

Methanol

Toxicity to fish

mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h

NOEC - Oryzias latipes - 7,900 mg/l - 200 h

Toxicity to daphnia and other aquatic

EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h invertebrates

Toxicity to algae

Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) -
22,000.0 mg/l - 96 h

Phenol

Toxicity to fish

LC50 - Leuciscus idus (Golden orfe) - 14.00 - 25.00 mg/l - 48 h

LC50 - Carassius auratus (goldfish) - 36.10 - 68.80 mg/l - 96 h

Toxicity to daphnia and other aquatic
invertebrates

EC50 - Daphnia magna (Water flea) - 12.00 mg/l - 24 h

EC100 - Daphnia magna (Water flea) - 100.00 mg/l - 24 h

Toxicity to algae

EC50 - Chlorella vulgaris (Fresh water algae) - 370.00 mg/l - 96 h

Persistence and degradability no

data available

Bioaccumulative potential

Partition coefficient n-octanol/ water (log Kow)

Proprietary Ingredient 1 0.18

Proprietary Ingredient 2 1.1

no data available

Mobility in soil no

data available **Other**

adverse effects no

data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Product :

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product.

SECTION 14 – TRANSPORTATION INFORMATION

Hazardous for Shipping: Yes

Based on 49 CFR, IATA and IMDG:

UN Number: UN1263

UN Proper Shipping Name: Paint

Hazard Class: 3 **Packing Group:** II

Labels: Flammable Liquid

Placards: Flammable Liquid

SECTION 15 – Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: All hazardous ingredients are on the TSCA Chemical Substance Inventory.

Component	SARA 302	SARA 311 / 312	SARA 313	Massachusetts RTK	Pennsylvania RTK	New Jersey RTK	California Prop 65 list
Proprietary Ingredient 1	No	No	No	Yes	Yes	Yes	No
Proprietary Ingredient 2	No	No	NO	Yes	Yes	Yes	No
Proprietary Ingredient 3	No	No	No	Yes	Yes	No	No
Ethanol	No	Yes	No	Yes	Yes	Yes	No
Phenol	Yes	Yes	Yes	Yes	Yes	Yes	No
Molybdenum Disulfide	No	No	No	Yes	Yes	Yes	No
Methanol	No	Yes	Yes	Yes	Yes	Yes	No
Formaldehyde	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SARA 311 / 312 Hazards: Flammable Hazard ,Acute Health Hazard, Chronic Health Hazard

SECTION 16 – OTHER INFORMATION

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