
TULCO OILS INC.

www.tulco.com

June 12, 2007

Mike Bates
Canyon State Oil
517 S. 17th Ave.
Phoenix, Arizona 85007



Dear Mike,

We have placed three 5-gallon samples of three different versions of the **Lubsoil Lubstamp M-33** product into the mail by UPS today, to your Yuma location. It was sent to the attention of Doug Stubbs per your request. This Lubsoil Lubstamp M-33 product is our first proposed product to replace the Shell Fenella DSV 100 product that Tom indicated has been discontinued by Shell.

We are providing three different versions for your customer to test, primarily revolving around preferred additive performance percentage, and the evaporation rate of each. Please take note, that the samples are designated on each metal sample bucket as, Version # 1, Version #2, and Version #3 for testing verification differences.

Thanks Mike, for allowing Tulco Oils, Inc. the potential opportunity to be of assistance in the design of a specialized product, supply and service. Please keep me informed of your progress as the customer begins testing our products.

Respectfully,



Rick McCleer
President
Tulco Oils, Inc.
918-838-3354 ext. 3036
rickmccleer@tulco.com

"Common Sense...Patience...Humor...Laughter...Kindness...Excellence."

Learn more about us at: www.Tulco.com or www.Lubsoil.com

Celebrating our 50th Year in the Lubricant Business

LUBSOIL...DESIGNED LUBRICATIONS...ENGINEERED TO MEET YOUR SPECIFIC NEEDS

"Quite Possibly, some of the finest lubricants ever made."

CORPORATE OFFICE

P.O. Box 26785
OKLAHOMA CITY, OK 73126
(405) 670-6266

2401 EAST ROOSEVELT
LITTLE ROCK, AR 72206
(501) 375-9114

5240 EAST PINE
TULSA, OK 74115
(918) 838-3354

1621 S. 28TH STREET
VAN BUREN, AR 72956
(479) 471-5262

627 112TH STREET
ARLINGTON, TX 76011
(817) 640-0051



Product Data Sheet

Manufacturer Information:

Tulco Oils, Inc.
 5240 E. Pine Street
 Tulsa, Oklahoma 74115

LUBSOIL LUBSTAMP M-33

Product Code:

LUBSOIL LUBSTAMP M-33 is a specially designed vanishing fluid to offer moderate to heavy-duty lubricity in many stamping type operations.

LUBSOIL LUBSTAMP M-33 leaves a clear, dry film that resists water and chemicals that can cause and accelerate the corrosion process. The protective film coating is not sticky and will not attract dirt and air born contaminants. This product is easily applied by spray, dip or brush type methods and is compatible with lubricating oils and may not require cleaning, dependent upon application, assembly or use.

LUBSOIL LUBSTAMP M-33 meets and exceeds the minimum OSHA safety requirement for flash point of 142 F and greater.

Case Study- Customer was utilizing a vanishing type stamping fluid, working with 3/8 thickness galvanized material for the truss plate industry.

Customer Issues- After approximately 50,000 stamps, customer had to have dye re-worked. The cost for the dye re-working was \$48,000.00 per die. Six dyes were re-worked per year. \$288,000 was spent annually for dye maintenance. Product also left a tacky film residue.

Lubstamp M-33 was introduced to the plant and customer utilized this fluid for all stamping operations. Dye life was extended to 292,000 stamps before re-working was required. The Lubstamp M-33 reduced maintenance cost tremendously. Customer realized an annual savings of \$192,000.00

TYPICAL SPECIFICATIONS

PROPERTY	RESULTS
FLASH POINT, °F	147
APPEARANCE	DARK AMBER LIQUID
NATURE OF FILM	EVAPORATIVE

When in doubt about the appropriate product for a specific application, always contact your Tulco Oils Inc. company representative. For safety information see the Lubsoil Material Safety Data Sheet and the product label. For more information and availability call 1-800-375-2347.



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Lubsoil Lubstamp M-33

Manufacturer Information:

Tulco Oils, Inc.
5240 E. Pine Street
Tulsa, Oklahoma 74115

Product Use:

Evaporative Stamping Oil

Emergency Phone Numbers:

Chemtrec
Tulco Oils, Inc. (800) 375-2347

Information:

Product Safety Information (800) 375-2347

1957-2007



2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
Safety Solvent	Proprietary	90%
Proprietary Additives	Proprietary	10%

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

CAS No.	Governing Body	Exposure Limits

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Amber liquid. The PEL and the TLV are 5 mg/m3 for oil mists. Causes eye irritation.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

	Health	Fire	Reactivity	PPI
NFPA	1	1	0	
HMIS	1	0	0	X

POTENTIAL HEALTH EFFECTS

PRE-EXISTING MEDICAL CONDITIONS

NA

INHALATION

The vapor or oil mist from this material may cause mild respiratory irritation.

LC50 (mg/l): no data

LC50 (mg/m3): no data

LC50 (ppm): no data

▪ **SKIN**

Practically non-toxic if absorbed through the skin. May cause minimal skin irritation.

Draize Skin Score: no data

Out of 8.0

LD50 (mg/kg): no data

▪ **EYES**

Contact with eyes causes irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

▪ **INGESTION**

May cause nausea, diarrhea and stomach discomfort.

LD50 (g/kg): no data

4. FIRST AID MEASURES

• **INHALATION**

Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

• **SKIN**

No specific first aid measures are required. Wash with soap and water. Get medical attention if irritation develops or persists. Wash clothing before reuse.

• **EYES**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, obtain medical treatment.

• **INGESTION**

If swallowed, get medical attention. Induction of vomiting is not required. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

• **EXTINGUISHING MEDIA**

AFFF Foam or alcohol resistant foam. Dry chemical. Carbon dioxide.

• **FIRE FIGHTING INSTRUCTIONS**

Wear structural fire fighting gear. As in any fire, wear self-contained breathing apparatus and full protective gear.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point	147				F	COC
Autoignition Temperature				NDA	F	N/A
Lower Explosion Limit				no data	%	N/A
Upper Explosion Limit				no data	%	N/A

6. ACCIDENTAL RELEASE MEASURES

Soak up with absorbent material. Vacuum or sweep up material and place in a disposal container.

7. HANDLING AND STORAGE

• **HANDLING**

Wash thoroughly after handling.

• **STORAGE**

Not classified by OSHA as flammable or combustible.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

- **ENGINEERING CONTROLS**

Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Mechanical ventilation recommended.

- **PERSONAL PROTECTION**

- **EYE PROTECTION**

Safety glasses (with side shields) recommended. Splash proof chemical goggles are recommended to protect against the splash of product.

- **GLOVES or HAND PROTECTION**

Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Neoprene; Nitrile; Viton;

- **RESPIRATORY PROTECTION**

For fire conditions or exposure above TLV: Wear NIOSH/MSHA approved respirators.

- **OTHER**

Eye wash facility and safety shower recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Test Result	Reference
Appearance		N/A	Dark Amber	
Boiling Point		F	>300	
Bulk Density		lb/gal	no data	
Melting Point		F	no data	
Molecular Weight		g/mole	No data	
Octanol/Water Coefficient		N/A	no data	
pH		N/A	No data	
Specific Gravity	0.799	N/A	0.899	
Solubility In Water		wt %	Insoluble	
Odor		N/A	Petroleum oil.	
Odor Threshold		ppm	no data	
Vapor Pressure		mmHg	No data	@ 68 F
Viscosity (F)		SUS	50	@ 100 F
Viscosity (C)		SUS @ 40C	1.25	@ 20 C
% Volatile		wt %	NIL	

10. STABILITY AND REACTIVITY

- **STABILITY**

Stable

- **CONDITIONS TO AVOID**

Avoid heat, sparks and open flame.

- **INCOMPATIBILITY**

Strong oxidizers

- **HAZARDOUS DECOMPOSITION PRODUCTS**

CO, CO₂.

- **HAZARDOUS POLYMERIZATION**

Will not polymerize.

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state and federal EPA regulations. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

<u>Governing Body</u>	<u>Mode</u>	<u>Proper Shipping Name</u>
DOT	Ground	Not Regulated

<u>Governing Body</u>	<u>Mode</u>	<u>Hazard Class</u>	<u>UN/NA No.</u>	<u>Label</u>
DOT	Ground	N/A	N/A	Not Regulated

14. REGULATORY INFORMATION

<u>Regulatory List</u>	<u>Component</u>	<u>CAS No.</u>
SARA 311/312 Categories:		
CERCLA Reportable Quantities (RQ)		

Title III Classifications Sections 311,312:

- Acute: **NO**
- Chronic: **NO**
- Fire: **NO**
- Reactivity: **NO**
- Sudden Release of Pressure: **NO**

15. OTHER INFORMATION