

## **Section 1: IDENTIFICATION**

#### 1.1 PRODUCT IDENTIFIER

Product Name: Lubegard® Bio-Tap Drilling & Tapping Fluid
Product Code: 81901, 81904, 81905, 81911, 81915, 81955

## 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Use:** Tapping fluid.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: International Lubricants, Inc.

P.O. Box 24743. Seattle WA

98124-0743, USA

**Telephone Number:** (206) 762-5343

(800) 333-LUBE (5823)

## 1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone CHEM TEL (800) 255-3924 Number: CHEM TEL (813) 248-0585

## Section 2: HAZARD(S) IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

Hazard class

Acute toxicity 3 (Dermal) Skin irritation 2 Skin sensitization 1

#### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

## **Hazard Pictogram:**





Signal Word: Danger

Hazard Statement: Toxic in contact with skin. Causes skin irritation. May cause an

allergic skin reaction.

**Prevention:** Wear protective gloves/protective clothing. Wash hands thoroughly

after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace.

Response: If on skin: Wash with plenty of water. Take off immediately all

contaminated clothing and wash it before reuse. If skin irritation or

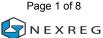
rash occurs: Get medical advice/attention.

Storage: Store locked up.

**Disposal:** Dispose of contents and container in accordance with all local,

regional, national and international regulations.







### 2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

70 % of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 MIXTURES

Ingredient	CAS No	Wt. %
Fatty alcohol polyglycol ether	Proprietary	10 - 30
Morpholine, 4-(2-nitrobutyl)-	2224-44-4	0.1 - 1

The specific chemical identity and 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**

#### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. If easy to do, remove contact lenses, if worn. Get

medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

Inhalation: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Seek medical attention or call poison control.

## 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: May cause eye irritation. Symptoms may include discomfort or pain,

excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

Skin: Toxic in contact with skin. Causes skin irritation. Symptoms may

include redness, edema, drying, defatting and cracking of the skin.

Print date: 2015-05-29

May cause an allergic skin reaction.

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea

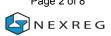
or vomiting.

## 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

**Specific Treatments:** In case of accident or if you feel unwell, seek medical advice

immediately (show the label or MSDS where possible).





## **Section 5: FIRE-FIGHTING MEASURES**

#### **5.1 EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a direct stream of water.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

**Products of Combustion:** May include, and are not limited to: oxides of carbon, hydrocarbons.

#### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

## 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite),

then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Scoop up material and place in a disposal container. Provide ventilation.

**Section 7: HANDLING AND STORAGE** 

## 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Keep away from heat, sparks, and flame. Avoid contact with skin

and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not

eat or drink. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed and

in a well-ventilated place. Do not store at temperatures above 49 °C

Print date: 2015-05-29

/ 120 °F. Store locked up. (See section 10)

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **8.1 CONTROL PARAMETERS**

### **Exposure Guidelines**

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
Fatty alcohol polyglycol ether	Not available.	Not available.
Morpholine, 4-(2-nitrobutyl)-	Not available.	Not available.





### **8.2 EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapor, etc.) below recommended exposure limits.

#### 8.3 INDIVIDUAL PROTECTIVE MEASURES

**Personal Protective Equipment:** 

**Eye/Face Protection:** Wear eye/face protection.

Skin Protection:

**Hand Protection:** Wear chemically resistant protective gloves.

**Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** None necessary under normal conditions of use.

**General Health and Safety** 

Measures:

Handle according to established industrial hygiene and safety

practices.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Oily liquid.

Color: Brown.

Odor: Oily odor.

Odor Threshold: Not available.

Physical State: Liquid.

pH: Not available.

Melting Point/Freezing Point: Not available.

Initial Boiling Point and Boiling Range: > 330 °C (626 °F)

Flash Point (COC): > 205 °C (400 °F)

Evaporation Rate: Negligible.

Flammability: Not available.

Lower Flammability/Explosive Limit: Not available.

Upper Flammability/Explosive Limit: Not available.

Vapor Pressure: < 1 mmHg @ 25 °C (77 °F)

Vapor Density:Not available.Relative Density/Specific Gravity:0.84 - 0.94Solubility:Soluble.

Partition coefficient: n-octanol/water:

Auto-ignition Temperature:

Not available.

Not available.

Not available.

Not available.

Viscosity:

Oxidizing Properties:

Not available.

Not available.

Not available.

Not available.





## **Section 10: STABILITY AND REACTIVITY**

#### **10.1 REACTIVITY**

No dangerous reaction known under conditions of normal use.

## **10.2 CHEMICAL STABILITY**

Stable under normal storage conditions.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

## **10.4 CONDITIONS TO AVOID**

Heat. Incompatible materials.

## 10.5 INCOMPATIBLE MATERIALS

Strong oxidizers.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon, hydrocarbons.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Eye contact, skin contact, skin absorption, inhalation, ingestion.

## Symptoms related to physical/chemical/toxicological characteristics:

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** Toxic in contact with skin. Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation.

## **Acute Toxicity:**

Ingredient	LC50	LD50	
Fatty alcohol polyglycol ether	Not available.	Oral >2000mg/kg, rat	
		Oral 625 mg/kg, rat	
Morpholine, 4-(2-nitrobutyl)-	Not available.	Dermal 420 mg/kg, rabbit	

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation) LD50 (oral) LD50 (dermal)		LD50 (dermal)
Not available.	> 2000 mg/kg, rat	>1000 but ≤2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*	
Fatty alcohol polyglycol ether	Not listed.	
Morpholine, 4-(2-nitrobutyl)-	Not listed.	

<sup>\*</sup> See Section 15 for more information.



Print date: 2015-05-29



## 11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Based on available data, the classification criteria are not met. **Respiratory Sensitization:** Based on available data, the classification criteria are not met.

Skin Sensitization: May cause an allergic skin reaction.

STOT-Single Exposure: Based on available data, the classification criteria are not met.

**Chronic Health Effects:** 

Carcinogenicity: Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.

Reproductive Toxicity:

**Developmental:** Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure: Based on available data, the classification criteria are not met. **Aspiration Hazard:** Based on available data, the classification criteria are not met.

Other Information: Not available.

#### Section 12: ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

**Acute/Chronic Toxicity:** May cause long-term adverse effects in the aquatic environment.

### 12.2 PERSISTENCE AND DEGRADABILITY

Not available.

## 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL

Not available.

## 12.5 OTHER ADVERSE EFFECTS

Not available.

## Section 13: DISPOSAL CONSIDERATIONS

#### **13.1 WASTE TREATMENT METHODS**

**Disposal Method:** This material must be disposed of in accordance with all

local, state, provincial, and federal regulations. Do not

Print date: 2015-05-29

empty into drains.

Other disposal recommendations: Not available.





## **Section 14: TRANSPORT INFORMATION**

#### **14.1 UN NUMBER**

UN2810

## **14.2 UN PROPER SHIPPING NAME**

Toxic liquid, organic, n.o.s. (Morpholine, 4-(2-nitrobutyl)-)

# 14.3 TRANSPORT HAZARD CLASS(ES)

6.1

## **14.4 PACKING GROUP**

Ш

#### 14.5 ENVIRONMENTAL HAZARDS

Not available.

## 14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available.

## 14.7 SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

# **Section 15: REGULATORY INFORMATION**

## 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE **CHEMICAL**

SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SARA Title III				
Ingredient Section 302 Section 304 CERCLA Section (EHS) TPQ (lbs.) EHS RQ (lbs.) RQ (lbs.) 313				
Fatty alcohol polyglycol ether	Not listed.	Not listed.	Not listed.	Not listed.
Morpholine, 4-(2-nitrobutyl)-	Not listed.	Not listed.	Not listed.	Not listed.

## **State Regulations**

# **California Proposition 65:**

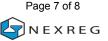
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### **Global Inventories:**

Ingredient	USA TSCA
Fatty alcohol polyglycol ether	Yes.
Morpholine, 4-(2-nitrobutyl)-	No.

NFPA-National Fire Protection Association:		
Health:	2	
Fire:	1	
Reactivity:	0	

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme



Print date: 2015-05-29



## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens

2 - Reasonably anticipated to be carcinogens.

## **Section 16: OTHER INFORMATION**

**Date of Preparation:** May 29, 2015

Version: 1.0

**Revision Date:** May 29, 2015

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

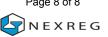
Prepared by: Nexreg Compliance Inc.

Phone: (519) 488-5126

www.nexrea.com

Prepared for: International Lubricants, Inc.

End of Safety Data Sheet



Print date: 2015-05-29