



## SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

<b>Product Name:</b> LiquiFix Lubricant	<b>Information Phone Number:</b> 877-235-3772
<b>Manufacturer:</b> LiquiFix, Inc. 54 Research Drive Stamford, CT 06906	<b>Emergency Telephone Number:</b> <b>(Chemtrec):</b> (800) 424-9300 International 703-527-3887
<b>SDS Date of Preparation:</b> November 6, 2013	<b>Recommended Uses:</b> Lubricant, Protectant, Penetrant

### SECTION 2 – HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Not Hazardous

#### Label Elements

None Required

**Other Hazards:** None known

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	Percentage
Mineral Oil	8042-47-5	50-90%
Petroleum Distillates	64742-46-7 64742-47-8	10-50%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4 – FIRST AID MEASURES

**Eye Contact:** Immediately flush eye with water while lifting the upper and lower lids. Get medical attention if irritation persists.

**Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops.

**Inhalation:** Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting. Get immediate medical attention by calling a Poison Control Center or hospital emergency department.

**Most important symptoms and effects, both acute and delayed:** May cause mild eye and skin irritation. Accidental ingestion may cause gastrointestinal effects with nausea and diarrhea.

**Indication of any immediate medical attention and special treatment needed:** Get immediate medical attention in cases of ingestion.

## SECTION 5 – FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Use water fog, foam, carbon dioxide, dry chemical. Water or foam may cause frothing.

**Special hazards arising from the chemical**

**Unusual fire and explosion hazards:** At elevated temperatures containers may rupture.

**Combustion products:** Thermal decomposition may yield carbon monoxide, carbon dioxide and hydrocarbons.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed containers and structures with water.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate protective equipment as described in Section 8.

**Environmental precautions:** Prevent entry in storm sewers and waterways. Report spill as required by local and federal regulations.

**Methods and material for containment and cleaning up:** Dike spill and collect into closable containers for disposal with an inert absorbent.

## SECTION 7 – HANDLING and STORAGE

**Precautions for safe handling:** Avoid eye and prolonged/repeated skin contact. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use. Discard oil soaked shoes and other items than cannot be laundered.

**Conditions for safe storage, including any incompatibilities:** Protect containers from physical damage. Store in a cool area away from oxidizers.

Empty containers retain product residues. Do not cut, weld, braze, etc. on or near empty containers. Follow all SDS precautions in handling empty containers.

## SECTION 8 – EXPOSURE CONTROLS and PERSONAL PROTECTION

**Exposure guidelines:**

INGREDIENTS	CAS# / EINECS #	EXPOSURE LIMITS
Mineral Oil	8042-47-5	5 mg/m <sup>3</sup> TWA OSHA PEL (as Oil Mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable fraction) (as mineral oil)
Petroleum Distillates	64742-46-7 64742-47-8	5 mg/m <sup>3</sup> TWA OSHA PEL (as Oil Mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable fraction) (as mineral oil)

**Appropriate engineering controls:** General ventilation should be adequate for normal use. For operations where the occupational exposure limit may be exceeded, mechanical ventilation such as local exhaust may be needed

**PERSONAL PROTECTION:**

**Eye Protection:** Avoid eye contact. Safety glasses or goggles recommended if splashing is possible.

**Skin Protection:** Avoid prolonged skin contact. Rubber or other impervious gloves are recommended where prolonged or repeated skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation. Use a NIOSH approved respirator with organic vapor cartridges or supplied air respirator if needed. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Other Protective Equipment:** For operations where contact can occur, an eye wash facility should be available.

## SECTION 9 – PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance:</b> Light straw colored liquid.	<b>Odor:</b> Mild petroleum odor.
<b>Solubility:</b> Not soluble	<b>Odor Threshold:</b> No data available
<b>Initial Boiling Point/Range:</b> 450°F (232°C)	<b>Melting/Freezing Point:</b> Not Available
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.86	<b>Voc:</b> 77 G/L
<b>Vapor Pressure (@ 20 C Mm Hg):</b> 1.0	<b>Vapor Density (Air=1):</b> Less Than 1
<b>Evaporation Rate (Butyl Acetate=1):</b> 1.1	<b>Coefficient Of Water/Oil:</b> Not Available
<b>Solubility In Water:</b> Negligible	<b>Volatile:</b> 24%
<b>pH:</b> Not available	<b>Decomposition Temperature:</b> Not Determined
<b>Viscosity:</b> 21.5 cSt @ 40°C	<b>Explosive Properties:</b> Not explosive
<b>Relative Density:</b> 0.86	<b>Oxidizing Properties:</b> Not an oxidizer
<b>Molecular Formula:</b> Mixture	<b>Molecular Weight:</b> Mixture
<b>Flammability (solid, gas):</b> Not applicable	<b>Autoignition Temperature:</b> Not Determined
<b>Flash Point:</b> 275°F/154°C	
<b>Flammable Limits:</b> (Vol % In Air) LEL: 0.5 (Petroleum Distillate) UEL: 4.8 (Petroleum Distillate)	

**Other Information:** None available

## SECTION 10 – STABILITY and REACTIVITY

**Reactivity:** Not reactive.

**Chemical Stability:** This material is stable.

**Possibility of hazardous reactions:** Will not occur.

**Conditions To Avoid:** Avoid excessive heat.

**Incompatible materials:** Avoid strong oxidizers and strong acids.

**Hazardous Decomposition Products:** Thermal decomposition may yield carbon monoxide, carbon dioxide and hydrocarbons.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Eye Contact:** May cause mild irritation with redness and tearing.

**Skin Contact:** Prolonged contact may cause drying and cracking of skin.

**Inhalation:** Vapors or mists may cause upper respiratory tract irritation, headache, dizziness, drowsiness, anesthesia and unconsciousness.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic Hazards:** Prolonged or repeated exposure may cause dermatitis.

**Acute Toxicity Values:** Product: Oral rat LD<sub>50</sub> > 5 g/kg; Dermal rabbit LD<sub>50</sub> 2 g/kg

**Carcinogenicity:** None of the components are listed as a carcinogen or suspect carcinogen by NTP, IARC, ACGIH or OSHA.

## SECTION 12 – ECOLOGICAL INFORMATION

**Toxicity:** No data available.

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste treatment methods:** This product as sold does not meet the definition of a US EPA hazardous waste. Dispose in accordance with all local, state and federal regulations.

## SECTION 14 – TRANSPORTATION INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated	None	None	Not applicable
Canadian TDG	None	Not Regulated	None	None	Not applicable
EU ADR/RID	None	Not Regulated	None	None	Not applicable
IMDG	None	Not Regulated	None	None	Not applicable
IATA/ICAO	None	Not Regulated	None	None	Not applicable

Special precautions for user: Not applicable  
Transport in bulk according to Annex II of MARPOL 73/38 and the IBC code: Not applicable

## SECTION 15 – REGULATORY INFORMATION

**EPA SARA 302:** This product does not contain chemicals regulated under SARA Section 302.

**EPA SARA 311 Hazard Classification:** Not Hazardous

**EPA SARA 313:** This product contains the following chemicals that are regulated under SARA Title III, section 313:  
None

**California Proposition 65:** This product is not known to contain any chemicals which are known to the State of California to cause cancer or reproductive harm.

**Toxic Substances Control Act:** All of the components of this product are listed on the TSCA inventory.

**Canadian Environmental Protection Act:** All of the components of this product are listed on the Canadian Domestic Substances List (DSL).

**WHMIS Classification:** Not a controlled product.

This product has been classified in accordance with the hazard criteria in the CPR and the SDS contains all the information required by the CPR.

**European Inventory of Commercial Chemical Substances:** All of the components of this product are listed on the EINECS Inventory.

**Australian Inventory of Chemical Substances:** All of the components of this product are listed on the AICS Inventory.

**Inventory of Existing Chemical Substances of China:** All of the components of this product are listed on the Chinese IECSC.

**Japanese Existing and New Chemical Substances:** All of the ingredients of this product are listed on the Japanese ENCS.

**Korean Existing Chemical List:** All of the components of this product are listed on the KECL Inventory.

**Philippine Inventory of Chemicals and Chemical Substances:** All of the components of this product are listed on the PICCS.

## SECTION 16 – OTHER INFORMATION

Revision Summary: New Format.



**NFPA**

N/A = Not applicable

NDA = No data available

NEG. = Negligible

< = Less Than

> = More than

**GHS Classification for Reference (See Sections 2 and 3):**

None

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential arising from its use. Always read label before using product.

1	HEALTH
1	FLAMMABILITY
0	PHYSICAL HAZARD

**HMIS**