



MATERIAL SAFETY DATA SHEET  
LPS® TKX

Revision Date: October 24, 2011

Supersedes: May 9, 2011

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**Section 1 • Product and Company Identification**

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**Product Name:** LPS® TKX

**Part Number(s):** 02016 (aerosol), 02022, 02028, 02005, 02055, C02016 (aerosol), C02022, C02028, C02005, C02055

**Chemical Name:** Petroleum Distillates

**Product Use:** An industrial lubricant designed to displace moisture from equipment, provide heavy-duty lubrication and rust prevention.

**Manufacturer Information:** LPS Laboratories, 4647 Hugh Howell Road, Tucker, GA, USA 30084  
**TEL:** USA & Canada: 1 800 241-8334  
Outside USA and Canada: +1 770 243-8800  
**FAX:** USA & Canada: 1 800 543-1563  
Outside USA and Canada: +1 770 243-8899

**Emergency Telephone Number:** Chemtrec: USA & Canada: 1 800 424-9300  
Outside USA and Canada: +1 703 527-3887

**Website:** <http://www.lpslabs.com>

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**Section 2 • Hazards Identification**

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*This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

**Emergency Overview:**

**Aerosol:** DANGER: Flammable. Contents under pressure. Harmful or fatal if swallowed.

**Bulk:** DANGER: Combustible. Harmful or fatal if swallowed.

**Primary route(s) of entry:** Skin and eye contact. Inhalation.

**Potential Acute Health Effects:**

**Eyes:** Irritating to eyes.

**Skin:** Repeated exposure may cause skin dryness or cracking.

**Inhalation:** Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.

**Ingestion:** Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestinal irritation. May cause injury if aspirated into lungs.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** NTP: No IARC: No OSHA: No ACGIH: No

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Target Organs:** None



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### Medical conditions aggravated by exposure:

Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

### Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

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### Section 3 • Composition / Information on Ingredients

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Component	CASRN	Weight Percent
Distillates (Petroleum), Hydrotreated Light	64742-47-8	60 - 70%
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	10 - 20%
Calcium Sulfonate	NJ TS RN 800967-7053P	1 - 5%
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	1 - 5%
Carbon Dioxide (aerosol only)	124-38-9	1 - 5%
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	1 - 5%

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### Section 4 • First Aid Measures

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<b>Eyes:</b>	Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. DO NOT use eye ointment. Seek medical attention immediately.
<b>Skin:</b>	Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. DO NOT use ointments. Seek medical attention if irritation persists.
<b>Inhalation:</b>	Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
<b>Ingestion:</b>	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. DO NOT leave victim unattended. Seek medical attention immediately.



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**Section 5 • Fire Fighting Measures**

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**Products of Combustion:** Carbon monoxide and carbon dioxide.

**General Fire Hazards:** High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

**Firefighting media:** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use CO<sub>2</sub>, water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosions.

**Sensitivity to Impact:** None                      **Sensitivity to Static Discharge:** None

**Protection Clothing (Fire):** Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

**Special Remarks on Explosion Hazards:**  
Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

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**Section 6 • Accidental Release Measures**

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**Containment Procedures:**

**Small Spill and Leak:** Eliminate ignition sources. Absorb with an inert material and dispose of properly.

**Large Spill and Leak:** Eliminate ignition sources. Secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.

**Clean-Up Procedures:** Contain and recover spilled material when possible.

**Evacuation Procedures:** Ventilate area of leak or spill. Keep unnecessary and unprotected people away.

**Special Procedures:** Remove all sources of ignition. Ventilate area. Wear personal protective equipment during cleanup.

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**Section 7 • Handling and Storage**

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**Handling:** DO NOT spray into or around ignition sources. DO NOT allow material to come in contact with eyes or skin. Wear appropriate protective equipment during handling. Keep container closed. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage:** Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store between 40°F and 120°F (4.4°C and 49°C).

**Precautions to be taken in handling and storage:**

Store aerosols as Level 3 Aerosol (NFPA 30B). Store all materials in a dry, well-ventilated area. Avoid breathing vapors.



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**Section 8 • Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	CASRN	OSHA	ACGIH	NIOSH	Supplier
Distillates (Petroleum), Hydrotreated Light	64742-47-8	5 mg/m3 (oil mist) PEL	5 mg/m3 (oil mist) TLV 10 mg/m3 (oil mist) STEL	5 mg/m3 (oil mist) TWA 10 mg/m3 (oil mist) STEL	100 ppm TWA 525 mg/m3 TWA
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	5 mg/m3 (oil mist) PEL	5 mg/m3 (oil mist) TLV 10 mg/m3 (oil mist) STEL	5 mg/m3 (oil mist) TWA 10 mg/m3 (oil mist) STEL	5 mg/m3 TWA
Calcium Sulfonate	NJ TS RN 800967-7053P	Not established	Not established	Not established	None reported
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	Not established	Not established	Not established	None reported
Carbon Dioxide (aerosol only)	124-38-9	5000 ppm PEL	5000 ppm TLV 30000 ppm STEL	5000 ppm TWA 30000 ppm STEL	None reported
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	5 mg/m3 (oil mist) PEL	5 mg/m3 (oil mist) TLV 10 mg/m3 (oil mist) STEL	5 mg/m3 (oil mist) TWA 10 mg/m3 (oil mist) STEL	None reported

**Engineering Controls:** Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

**Personal protective equipment**

**Eye protection:** Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

**Hand protection:** Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, wear chemical resistant gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

**Respiratory protection:** Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).

**General Hygiene Considerations:** Wash thoroughly after handling. Have eye-wash facilities immediately available.



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**Section 9 • Physical and Chemical Properties**

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<b>Appearance:</b>	Liquid	<b>Color:</b>	Dark green
<b>Odor:</b>	Petroleum / Vanilla	<b>Evaporation Rate:</b>	< 0.1 (BuAc = 1)
<b>Solubility Description:</b>	< 3% in water	<b>Flash Point:</b>	73°C (163°F) minimum
<b>Boiling Point:</b>	214°C (417°F)	<b>Flash Point Method:</b>	Tag-Closed Cup
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	0.83 - 0.85 @ 20°C	<b>Decomposition Temperature:</b>	Not established
<b>Vapor Density (air = 1):</b>	4.7	<b>Auto ignition temperature:</b>	> 228°C (442°F)
<b>Vapor Pressure:</b>	< 0.05 mm Hg @ 20°C	<b>Flammable limits (estimated):</b>	LOWER: 0.6% UPPER: 7.0%
<b>Rule 1171 PPc:</b>	Not applicable	<b>Partition Coefficient (octanol/water):</b>	< 1
<b>V.O.C. Content:</b>	Aerosol: 2.5% per State & Federal Consumer Product Regulations Bulk: 2.5% per State & Federal Consumer Product Regulations	<b>Odor Threshold:</b>	Not established
<b>Melting Point:</b>	< -50°C (-58°F)	<b>Viscosity:</b>	< 7 cSt @ 25°C
<b>pH:</b>	Not applicable	<b>Volatiles:</b>	70%
<b>Heat of combustion:</b>	Aerosol: > 30 kJ/g Bulk: > 30 kJ/g		

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**Section 10 • Stability and Reactivity**

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<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Keep away from ignition sources and extreme temperatures.
<b>Incompatibility:</b>	Extremely reactive or incompatible with oxidizing agents. Avoid photoreactive agents and strong inorganic and organic acids.
<b>Hazardous Decomposition:</b>	These products are carbon oxides (CO, CO <sub>2</sub> ) and hydrocarbons.
<b>Hazardous Polymerization:</b>	Will not occur.



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**Section 11 • Toxicological Information**

**Acute and Chronic Toxicity**

**A: General Product Information**

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

**B: Component Analysis**

Component	CASRN	LC-50	LD-50
Distillates (Petroleum), Hydrotreated Light	64742-47-8	> 6.8 mg/L*	> 5 g/kg*
Distillates (Petroleum), Hydrotreated Heavy Naphthenic	64742-52-5	2.18 mg/L / rat / 4 hr	> 5000 mg/kg / oral / rat
			> 2000 mg/kg / dermal / rabbit
Calcium Sulfonate	NJ TS RN 800967-7053P	Not established	Not established
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	Not established	4.3 g/kg / oral / rat
			> 2000 mg/kg / dermal / rat
Carbon Dioxide (aerosol only)	124-38-9	470000 ppm / rat / 30 minutes	Not appropriate
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	Not established	Not established

\* Supplier Data

**Section 12 • Ecological Information**

**Mobility:** Semi-volatile. Readily absorbed into soil. **Persistence / Degradability:** Only slightly biodegradable

**Bioaccumulative potential:** No bioaccumulation potential **Other adverse effects:** See below

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

**Ecotoxicity**

Effects on Organisms	Component	CASRN	Test	Species	Results
<b>Acute Toxicity on Fishes</b>	Distillates (Petroleum), Hydrotreated Light	64742-47-8	96-hr LC50	Oncorhynchus Mykiss	3,200 µg/L*
<b>Acute Toxicity on Daphnia</b>	No data available				
<b>Bacterial Inhibition</b>					
<b>Growth inhibition of algae</b>					
<b>Bioaccumulation in fish</b>					

\* Supplier Data

For the 64742-47-8 component, no toxicity has been observed in water due to extremely low water solubility. However, hydrocarbon and petroleum distillates are potentially toxic to freshwater and saltwater ecosystems. If material is spilled on soil, some potential toxic effects could occur before biodegradation could remove material.

If spilled, the 64742-52-5 constituent may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion. Biodegradation of this product is possible within 90 to 120 days in aerobic environments at temperatures above 21°C.



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**Section 13 • Disposal Considerations**

**Waste Status:** In its purchased form, non-aerosol material does not meet the definition of a RCRA hazardous waste. Aerosol products, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). However, if disposed of in its received form, an aerosol carries the waste code D003. (U.S.).

**Disposal:** Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.

**Note:** Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

**Section 14 • Transport Information**

Aerosol

<b>D.O.T. Ground</b>	<b>Shipping Name:</b>	Consumer Commodity	<b>UN No.:</b>	NA
	<b>Hazard Class:</b>	ORM-D	<b>Technical Name:</b>	NA
	<b>Subclass:</b>	NA	<b>Hazard Label:</b>	ORM-D Already on box
	<b>Packing Group:</b>	NA		
<b>Road/Rail - ADR/RID</b>	<b>UN No.:</b>	1950	<b>ADR Class:</b>	2
	<b>Packing Group:</b>	NA	<b>Classification Code:</b>	5F
	<b>Name and description:</b>	AEROSOLS, flammable	<b>Hazard ID No.:</b>	NA
	<b>Labeling:</b>	2.1	<b>Technical Name:</b>	NA
<b>IMDG-IMO</b>	<b>UN No.:</b>	1950	<b>Class:</b>	2
	<b>Shipping Name:</b>	Aerosols	<b>Subsidiary Risk:</b>	2.1
	<b>Labeling:</b>	NA	<b>Packing Group:</b>	NA
	<b>Packing Instructions:</b>	P003, LP02	<b>EmS:</b>	F-D, S-U
	<b>Marine pollutant:</b>	No	<b>Technical Name:</b>	NA
<b>IATA - ICAO:</b>	<b>UN No.:</b>	1950	<b>Class:</b>	2.1
	<b>Shipping Name:</b>	Aerosols, flammable	<b>Subclass:</b>	NA
	<b>Packing Instructions:</b>	203, Y203 (Ltd. Qty.)	<b>Packing Group:</b>	NA
	<b>Labeling:</b>	Flammable Gas	<b>Technical Name:</b>	NA

**Bulk versions of this product are not regulated by any mode of transportation.**

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.

**Section 15 • Regulatory Information**

**U.S. Federal Regulations**

**RCRA Hazardous Waste No.:** D003 (aerosol only)

**Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):**  
None

**Toxic Substances Control Act (TSCA):**  
All components of this product are TSCA inventory listed and/or are exempt.

**Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories:**  
Sudden Release of Pressure (aerosols only), Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**  
No individual section 313 component is present at or above 1%.

**Section 112 Hazardous Air Pollutants (HAPs):** None



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**State Regulations**

**California:** This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

**California and OTC States:** This product conforms to consumer product regulations.

**New Jersey Right to Know:**

Aerosol: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Distillates (Petroleum), Hydrotreated Heavy Naphthenic 64742-52-5 • Proprietary NJ TS RN 800967-7080P • Proprietary NJ TS RN 800967-7018P • Proprietary Calcium Sulfonate NJ TS RN 800967-7053P • 3-Methoxy-3-Methylbutan-1-ol 56539-66-3 • Carbon Dioxide 124-38-9 • Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7

Bulk: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Distillates (Petroleum), Hydrotreated Heavy Naphthenic 64742-52-5 • Proprietary NJ TS RN 800967-7080P • Proprietary NJ TS RN 800967-7018P • Proprietary Calcium Sulfonate NJ TS RN 800967-7053P • 3-Methoxy-3-Methylbutan-1-ol 56539-66-3 • Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7

**International Regulations**

**Canadian Environmental Protection Act (CEPA):**

All of the components of this product are included on the Canadian Domestic Substances list (DSL).

**Canadian Workplace Hazardous Materials Information System WHMIS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification:**  
Aerosol: Class A, Class B5, Class D2B

**WHMIS Classification:**  
Bulk: Class B3, Class D2B

**Other Regulations:**

Montreal Protocol listed ingredients: None  
Stockholm Convention listed ingredients: None  
Rotterdam Convention listed ingredients: None  
RoHS Compliant: Yes

**Section 16 • Other Information**

MSDS#: 12016 MSDS Preparation Responsible Name: Elena Badiuzzi Compliance Manager Telephone: +1 770 243-8800	<b>HMIS 1996</b>	<b>HMIS III</b>	<b>NFPA</b> Flammability  Special Reactivity
	Health: 1	Health: [1] 1	
	Flammability: 2	Flammability Aerosol: 4 Flammability Bulk: 2	
	Reactivity: 0	Physical Hazard Aerosol: 2 Physical Hazard Bulk: 0	

**Notice to Reader:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Elena Badiuzzi, Compliance Manager  
LPS Laboratories, a division of Illinois Tool Works