



# SAFETY DATA SHEET

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## 1. IDENTIFICATION

### Product identifier

**Product Name:** TRIBOGEL 1924  
**Product code:** 017244-01

### Other means of identification

**Synonyms** No information available

### Application

**Recommended Use** Lubricating Grease  
**Uses advised against** For industrial use only

### Supplier/Manufacturer:

**Supplier:**  
ENGINEERED CUSTOM LUBRICANTS (ECL)  
3851 Exchange Avenue  
Aurora, IL 60504 USA  
Phone: (630)449-5000  
Email: she@quakerchem.com

### **Emergency telephone number:**

\* 24 HOUR TRANSPORTATION:  
\*\*CHEMTREC: 1-800-424-9300  
+703-527-3887 (Call collect outside of US)  
\* 24 HOUR EMERGENCY HEALTH & SAFETY:  
\*\*(800) 523-7010 (Within US only) Outside of US call (703)  
527-3887

## 2. HAZARDS IDENTIFICATION

### GHS Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity	Category 2
Chronic aquatic toxicity	Category 3

### Label Elements

#### Emergency Overview

### **WARNING**

### **Hazard Statements**

Suspected of damaging fertility or the unborn child  
Harmful to aquatic life with long lasting effects



**Appearance** Opaque, Off-white

**Physical State** Semi-Solid

**Odor** Hydrocarbon-like

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Avoid release to the environment

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	192268-65-8	1 - 5%
4-methyl-2, 6-di-tert-butyl-phenol	128-37-0	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**General advice:** Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin contact:** Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Note to physician:** Treat symptomatically.

**Medical condition aggravated by exposure:** Dermatitis.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or `alcohol` foam. Do not use water with full jet.

**Specific hazards:** Do not allow material to contaminate ground water system.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Explosion data** Water mist may be used to cool closed containers

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Environmental precautions:** Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Keep away from living quarters. Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

**Technical measures/precautions:** Provide sufficient air exchange and/or exhaust in work rooms.

**Safe handling advice:** In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

### Storage

**Technical measures/storage conditions:** Store at room temperature in the original container.

**Incompatible products:** Strong oxidizing agents

**Safe storage temperature:** 40 - 100 ° F

Shelf life:

36 months

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Calcium carbonate	None	None	10 mg/m <sup>3</sup> (TWA) 5 mg/m <sup>3</sup> (TWA)
4-methyl-2, 6-di-tert-butyl-phenol	2 mg/m <sup>3</sup> (TWA)	None	10 mg/m <sup>3</sup> (TWA)

**Engineering measures:** Ensure adequate ventilation

### Personal Protective Equipment:

**General:** Provide easy access to eyewash/safety shower facilities.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, respiratory protection may be required. Contact your site safety representative for proper respirator selection.

**Eye protection:** Wear safety glasses with side shields (or goggles)

**Hand protection:** Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your safety department for specific recommendations

**Skin and body protection:** Wear protective clothing and appropriate footwear necessary for the risk of exposure. Contact your health and safety department for specific recommendations

**Hygiene measures:** Handle in accordance with sound chemical hygiene practices. Wear the appropriate PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink, or smoke while using chemicals.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Semi-Solid
<b>Appearance</b>	Opaque, Off-white
<b>Odor</b>	Hydrocarbon-like
<b>Odor Threshold</b>	No information available
<b>pH concentrate:</b>	No information available
<b>pH Dilution</b>	No information available
<b>Melting/freezing point</b>	No information available

<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	215 °C / 419 °F
<b>Method</b>	Cleveland Open Cup (COC)
<b>Evaporation rate</b>	No information available
<b>Flammability Limits in Air</b>	
upper flammability limit	No information available
lower flammability limit	No information available
<b>VOC Content Product (lb/gal)</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity (g/cc, 15 C)</b>	No information available
<b>Density @ 25 ° C. (g/cc):</b>	0.84
<b>Bulk Density @ 77° F. (lb/gal):</b>	7.01
<b>Water Solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic viscosity</b>	>20.5 mm <sup>2</sup> /s @ 40 C
<b>Dynamic viscosity</b>	No information available
<b>Molecular Weight</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Excessive heat.
<b>Materials to avoid:</b>	Strong oxidizing agents.

**Hazardous decomposition products:** Combustion products: Carbon oxides. lithium compounds.

**Hazardous Polymerization:** No information available.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

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

**Eye Contact** Contact with eyes may cause irritation.

**Skin Contact** Prolonged contact may cause redness and irritation.

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	-	-	-
4-methyl-2, 6-di-tert-butyl-phenol	> 2930 mg/kg ( Rat ) Oral LD50 Rat >2930 mg/kg (test substance administered as an aqueous dispersion at 10% w/v of arabic gum, Source: EPA_HP)	> 2000 mg/kg ( Rat ) Dermal LD50 Rat >2000 mg/kg (no deaths occurred, Source: JAPAN_GHS)	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Group 3	Not listed	Not listed

**Sensitization** No information available.

**Mutagenic effects:** No information available.

**Reproductive Toxicity** Product contains a component that is classified as a reproductive hazard. No testing has been conducted on the product itself.

**Developmental Toxicity** No information available.

**Teratogenic** No information available.

**Specific target organ systemic toxicity (single exposure)** No information available.

**Specific target organ systemic toxicity (repeated exposure)** No information available.

**Aspiration hazard** Based on viscosity and/or components, not expected to be an aspiration hazard.

**Additional information on toxicological effects**

No information available

**12. ECOLOGICAL INFORMATION**

Harmful to aquatic life with long lasting effects

Chemical Name	Toxicity to Fish	Daphnia Magna (Water Flea)	Toxicity to Algae
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	No data	No data	No data
4-methyl-2, 6-di-tert-butyl-phenol	5: 48 h Oryzias latipes mg/L LC50	No data	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50

19.45% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Octanol/water partition coefficient
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	-
4-methyl-2, 6-di-tert-butyl-phenol	4.17

**Mobility:** No data available

**Ozone:** No data available

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues/unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

## 14. TRANSPORT INFORMATION

**U. S. DEPARTMENT OF TRANSPORTATION:**

Proper shipping name: Not regulated

**TDG (CANADA):**

Proper shipping name: Not regulated

**IMDG/IMO:**

Proper shipping name: Not regulated

**IATA/ICAO:**

Proper shipping name: Not regulated

## 15. REGULATORY INFORMATION

**Federal Regulations**

**CERCLA/SARA Information:**

**SARA (311, 312) hazard class:** See GHS Classification in Section 2 for hazard class information.

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed	Not listed

**Clean Air and Clean Water Acts:**

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed	Not listed	Not listed

**U.S. STATE REGULATIONS (RTK):**

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
4-methyl-2, 6-di-tert-butyl-phenol	Not Listed	Present	Not Listed	0814	Present

**California Proposition 65 Status:** May contain trace amounts of listed chemicals: Diethanolamine

**CANADIAN REGULATIONS:**

Chemical Name	CEPA Schedule I	Challenge Substances



Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed

**INVENTORY STATUS:**

**United States TSCA Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

**16. OTHER INFORMATION**

**Sources of key data used to compile** Material safety data sheets of the ingredients.  
**the data sheet:**

**Prepared by:** Safety, Health and Environmental Department

**Revision Date:** 02/28/2019

**Reason for revision:** New formulation.

**Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.**

**Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

**End of Safety Data Sheet**