



# SAFETY DATA SHEET

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## 1. COMPANY AND PRODUCT IDENTIFICATION

### Product identifier

**Product Name:** RHEOGEL 2105P

**Product code:** 016376-01

### 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

### Classification

#### **OSHA Regulatory Status**

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

Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1

### Label Elements

#### Emergency Overview

**WARNING**

**Hazard Statements**

Causes serious eye irritation  
May cause an allergic skin reaction



**Appearance** Off-white

**Physical State** Semi-Solid

**Odor** Mild Petroleum

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace

#### Precautionary Statements - Response

Specific treatment (see First Aid on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None known

#### Other Information

Causes mild skin irritation.

**Unknown acute toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	192268-65-8	1 - 5%
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	68457-79-4	1 - 5%
Zinc Compound	PROPRIETARY	<1%
Inhibitor	Proprietary	<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

<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
<b>Skin contact:</b>	Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
<b>Ingestion:</b>	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
<b>Inhalation:</b>	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.
<b>Note to physician:</b>	Treat symptomatically.
<b>Medical condition aggravated by exposure:</b>	None known.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO <sub>2</sub> , water spray or "alcohol" foam.
<b>Specific hazards:</b>	Do not allow material to contaminate ground water system.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Water mist may be used to cool closed containers

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	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

<b>Technical measures/precautions:</b>	Provide sufficient air exchange and/or exhaust in work rooms.
<b>Safe handling advice:</b>	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

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Mineral Oil*	5 mg/m <sup>3</sup>	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>

**Engineering measures:** Ensure adequate ventilation

### Personal Protective Equipment:

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Neoprene gloves

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Semi-Solid
<b>Appearance</b>	Off-white
<b>Odor</b>	Mild Petroleum
<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>	235 °C / 455 °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>	.85
<b>Water Solubility</b>	Insoluble
<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>	No information available
<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>	None known.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	None under normal use.
<b>Hazardous Polymerization:</b>	Not applicable.

## 11. TOXICOLOGICAL INFORMATION

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

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	-	-	-
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	= 1830 mg/kg ( Rat ) Oral LD50 Rat 1830 mg/kg (Source: IUCLID)	> 3160 mg/kg ( Rabbit ) Dermal LD50 Rabbit >3160 mg/kg (Source: IUCLID)	-
Zinc Compound	-	-	-
Inhibitor	-	-	-

### 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

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed	Not listed
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	Not listed
Zinc Compound	Not listed	Not listed	Not listed
Inhibitor	Not listed	Not listed	Not listed

<b>Sensitization</b>	Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.
<b>Mutagenic effects:</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenic</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Aspiration hazard</b>	No information available.

### Additional information on toxicological effects

No information available

## 12. ECOLOGICAL INFORMATION

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	No data	No data	No data
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	> 100 mg/L LC50 25 - 50 mg/L LC50	4.0 - 6.0mg/L 1.0 - 5.0 mg/L EC50	No data
Zinc Compound	No data	No data	No data
Inhibitor	No data	No data	No data

0.21% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Components	Octanol/water partition coefficient
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	-
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	-
Zinc Compound	-
Inhibitor	-

**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****OSHA Hazard Communication Standard:**

This product is considered to be hazardous under the OSHA Hazard Communication Standard.

**CERCLA/SARA Information:****SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

**Immediate Health (Acute):** Yes  
**Delayed Health (Chronic):** Yes  
**Flammability:** No  
**Pressure:** No  
**Reactivity:** No

Components	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
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	1.0 %
Zinc Compound	Not listed	Not listed	Not listed
Inhibitor	Not listed	Not listed	Not listed

**CERCLA/SARA 313 Emission reporting:** 2.45 % Zinc compounds (EPA ID E649699)**Clean Air and Clean Water Acts:**

Components	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
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed	Listed	Not listed
Zinc Compound	Not listed	Not listed	Not listed	Not listed
Inhibitor	Not listed	Not listed	Not listed	Not listed

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

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Phosphorothioic acid,	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed



O,O,O-triphenyl esters, tert-Bu derivs					
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not Listed	Environmental hazard	100 lb	3012	Not Listed
Zinc Compound	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Inhibitor	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**California Proposition 65 Status:** No components are listed

**RCRA Status:** Not regulated

**CANADIAN REGULATIONS:**

Components	CEPA Schedule I	Challenge Substances
Phosphorothioic acid, O,O,O-triphenyl esters, tert-Bu derivs	Not listed	Not listed
Phosphorodithioic acid, mixed, o, o-bis (iso-Bu) and pentyl) esters, zinc salts	Not listed	Not listed
Zinc Compound	Not listed	Not listed
Inhibitor	Not listed	Not listed

**INVENTORY STATUS:**

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

**Canada DSL/NDSL Inventory List** All components are registered on the DSL or are exempt from registration.

## 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:** 04/04/2016

**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