



A QUAKER CHEMICAL COMPANY

SAFETY DATA SHEET

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1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: TRIBOGEL R174S

Product code: 016438-01

Other means of identification

Synonyms No information available

Application

Recommended Use 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

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Skin Sensitization	Category 1
Chronic aquatic toxicity	Category 2

Label Elements

Emergency Overview

WARNING
Hazard Statements
May cause an allergic skin reaction
Toxic to aquatic life with long lasting effects



Appearance Off-white

Physical State Semi-Solid

Odor Mild Petroleum

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
wear protective gloves
Avoid release to the environment

Precautionary Statements - Response

Specific treatment (see first aid on this label)
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
Collect spillage

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

None known.

Unknown acute toxicity

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Zinc oxide	1314-13-2	1 - 5%
1-Naphthalenamine, N-phenyl-	90-30-2	<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:	None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or `alcohol` foam.
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
Specific methods:	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. Do not flush into surface water. 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.
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Incompatible products: Strong oxidizing agents
Safe storage temperature: 40 - 100 ° F
Shelf life: 36 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines .

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Zinc oxide	2 mg/m ³ (TWA) 10 mg/m ³ (STEL)	5 mg/m ³ 15 mg/m ³	5 mg/m ³ (TWA) 15 mg/m ³ (Ceiling) 10 mg/m ³ (STEL)

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

Physical State	Semi-Solid
Appearance	Off-white
Odor	Mild Petroleum
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	No information available

Flash Point	215 °C / 419 °F
Method	Cleveland Open Cup (COC)
Evaporation rate	No information available
Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 C)	No information available
Density @ 25 ° C. (g/cc):	0.90
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	None under normal use.
Hazardous Polymerization:	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

Inhalation May cause irritation of respiratory tract.

Eye Contact Contact with eyes may cause irritation.

Skin Contact May cause sensitization by skin contact.

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

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc oxide	> 5000 mg/kg (Rat) Oral LD50 Rat >5000 mg/kg (Source: IUCLID)	-	-
1-Naphthalenamine, N-phenyl-	= 1625 mg/kg (Rat) Oral LD50 Rat 1625 mg/kg (Source: NLM_CIP)	-	-

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
Zinc oxide	Not listed	Not listed	Not listed
1-Naphthalenamine, N-phenyl-	Not listed	Not listed	Not listed

Sensitization Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

Mutagenic effects: No information available.

Reproductive Toxicity No information available.

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 No information available.

Additional information on toxicological effects

No information available

12. ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Zinc oxide	No data	No data	No data
1-Naphthalenamine, N-phenyl-	LC50 (Oncorhynchus mykiss - 96) = 0.74 mg/l LC50 (Lepomis macrochirus - 96h) = 0.82 mg/l	EC50 (Scenedesmus subspicatus - 72h) = 0.25 mg/l	EC50 (Daphnia magna - 48h) = 0.68 mg/l

4.128% 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
Zinc oxide	-
1-Naphthalenamine, N-phenyl-	-

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): No
Delayed Health (Chronic): No
Flammability: No
Pressure: No
Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Zinc oxide	Not listed	Not listed	1.0 %
1-Naphthalenamine, N-phenyl-	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Zinc oxide	Not listed	Not listed	Listed	Not listed
1-Naphthalenamine, N-phenyl-	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Zinc oxide	Not Listed	Environmental hazard	100 lb	3012	Present
1-Naphthalenamine, N-phenyl-	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

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

RCRA Status: Not regulated

CANADIAN REGULATIONS:

Canada - WHMIS Classification Information: This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Canadian Product Classification: Class D2B

Product Classification Graphic(s):



Component Classification Data:

Components	WHMIS hazard class	CEPA Schedule I	Challenge Substances
Zinc oxide	Uncontrolled product according to WHMIS classification criteria	Not listed	Not listed
1-Naphthalenamine, N-phenyl-	None	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 the data sheet: Material safety data sheets of the ingredients.

Prepared by:

Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Revision Date:

10/06/2015

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