



SAFETY DATA SHEET

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1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: ISOGEL 46000C-LOSX
Product code: 016478-01

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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Chronic aquatic toxicity

Category 3

Label Elements

Emergency Overview

Hazard Statements

Harmful to aquatic life with long lasting effects

Appearance Tan

Physical State Semi-Solid

Odor Mild Petroleum

Precautionary Statements - Prevention

Avoid release to the environment

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. Harmful to aquatic life.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Phosphonic acid, bis(1-methylethyl) ester	1809-20-7	1 - 5%
Naphthalenesulfonic acid, dinonyl-, barium salt	25619-56-1	1 - 5%
4-methyl-2, 6-di-tert-butyl-phenol	128-37-0	<1%
Triphenyl phosphate	115-86-6	<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. 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

Exposure Guidelines

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Naphthalenesulfonic acid, dinonyl-, barium salt	0.5 mg/m ³ (TWA)	0.5 mg/m ³	0.5 mg/m ³ (TWA)
4-methyl-2, 6-di-tert-butyl-phenol	2 mg/m ³ (TWA)	None	10 mg/m ³ (TWA)
Triphenyl phosphate	3 mg/m ³ (TWA)	3 mg/m ³	3 mg/m ³ (TWA)

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	Tan
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	> 210 °C / > 410 °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):	0.92

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	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphonic acid, bis(1-methylethyl) ester	= 1700 mg/kg (Rat) Oral LD50 Rat 1700 mg/kg (Source: NLM_CIP)	-	-
Naphthalenesulfonic acid, dinonyl-, barium salt	-	-	-
4-methyl-2, 6-di-tert-butyl-phenol	= 890 mg/kg (Rat) Oral LD50 Rat 890 mg/kg (Source: NLM_CIP)	> 2000 mg/kg (Rat) Dermal LD50 Rat >2000 mg/kg (Source: JAPAN_GHS)	-
Triphenyl phosphate	= 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-

	Oral LD50 Rat 3500 mg/kg (Source: JAPAN_GHS)	Dermal LD50 Rabbit >10000 mg/kg (Source: JAPAN_GHS)	
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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
Phosphonic acid, bis(1-methylethyl) ester	Not listed	Not listed	Not listed
Naphthalenesulfonic acid, dinonyl-, barium salt	Not listed	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Group 3	Not listed	Not listed
Triphenyl phosphate	Not listed	Not listed	Not listed

Sensitization No information available.

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

Harmful to aquatic life with long lasting effects

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Phosphonic acid, bis(1-methylethyl) ester	No data	No data	No data
Naphthalenesulfonic acid, dinonyl-, barium salt	No data	No data	No data
4-methyl-2, 6-di-tert-butyl-phenol	No data	= 6 mg/L EC50 > 0.42 mg/L EC50	No data
Triphenyl phosphate	0.28 - 0.5 mg/L LC50 0.81 - 0.94 mg/L LC50 0.53 - 0.8 mg/L LC50	0.86 - 1.2mg/L 0.6 - 4 mg/L EC50	EC50 (Daphnia magna - 48h) = 0.86 - 1.2 mg/L

	0.47 - 1.04 mg/L LC50 = 1.2 mg/L LC50		
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0.31% 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
Phosphonic acid, bis(1-methylethyl) ester	-
Naphthalenesulfonic acid, dinonyl-, barium salt	-
4-methyl-2, 6-di-tert-butyl-phenol	4.17
Triphenyl phosphate	4.59

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

Components Naphthalenesulfonic acid, dinonyl-, barium salt
25619-56-1

RCRA - Hazardous Constituents - Appendix:	hazardous constituent - no waste number
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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 This product is considered non-hazardous under the OSHA Hazard Communication

Standard: 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
Phosphonic acid, bis(1-methylethyl) ester	Not listed	Not listed	Not listed
Naphthalenesulfonic acid, dinonyl-, barium salt	Not listed	Not listed	1.0 %
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed	Not listed
Triphenyl phosphate	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
Phosphonic acid, bis(1-methylethyl) ester	Not listed	Not listed	Not listed	Not listed
Naphthalenesulfonic acid, dinonyl-, barium salt	Not listed	Not listed	Not listed	Not listed
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed	Not listed	Not listed
Triphenyl phosphate	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Phosphonic acid, bis(1-methylethyl) ester	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalenesulfonic acid, dinonyl-, barium salt	Not Listed	Environmental hazard	Not Listed	2146	Not Listed
4-methyl-2, 6-di-tert-butyl-phenol	Not Listed	Present	Not Listed	0814	Present
Triphenyl phosphate	Not Listed	Present	Not Listed	1951	Present

California Proposition 65 Status: No components are listed

RCRA Status: Not regulated

CANADIAN REGULATIONS:

Components	CEPA Schedule I	Challenge Substances
Phosphonic acid, bis(1-methylethyl) ester	Not listed	Not listed
Naphthalenesulfonic acid, dinonyl-, barium	Not listed	Not listed

salt		
4-methyl-2, 6-di-tert-butyl-phenol	Not listed	Not listed
Triphenyl phosphate	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: 05/05/2016

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