

Safety Data Sheet

1 – Product and company identification

Product name GEO BIO FILM C

Product number 19

Effective date 05/18/2007

Company USA address GEO DRILLING FLUIDS
P.O. BOX 1478
BAKERSFIELD, CA 93302

Telephone (661) 325-5919
Chemtrec (24 Hour) (800) 424-9300 - 24 HOURS DAY OR NIGHT

Product description: Industrial

2 - Hazards identification

Acute health effects

Causes eye irritation. May cause skin irritation. Ingestion may cause irritation. Inhalation may cause irritation of the respiratory tract and mucous membranes.

Chronic health effects

None known.

Signs/symptoms of exposure

Irritation

3 - Composition / information on ingredients

CAS-No.	Name according to EEC	%	Symbols	R-Phrases
Proprietary	Phosphoric Acid Ester Salt	25		
0000057-55-6	Propylene Glycol	.7		

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Notes: No Additional Information

GEO BIO FILM C

4 - First aid measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact

Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If irritation persists, call a physician.

Skin contact

Wash the affected area thoroughly with plenty of water and soap. If irritation develops, call a physician.

Inhalation

If affected, remove to fresh air.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and have patient drink several glasses of water. Call a physician.

5 - Fire fighting measures

Fire and explosive properties

This product is not known to present any fire hazard.

Extinguishing media

Carbon dioxide, foam, dry chemical, water.

Fire fighting instructions

Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Unusual fire/explosion hazards

None known.

6 - Accidental release measures

Containment techniques

Contain spill. If spilled in an enclosed area, ventilate.

Clean-up techniques

Wear proper personal protective clothing and equipment. Do not flush liquid into public sewer, water systems or surface waters. Soak up large spill residue and small spills with an inert absorbent. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

Evacuation instructions

Not Applicable

7 - Handling and storage

GEO BIO FILM C

Handling

Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Provide eyewash fountains and safety showers in the work area.

Storage

Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Store cool and dry, under well-ventilated conditions.

8 - Exposure controls / personal protection

Chemical Name

Phosphoric Acid Ester Salt
Propylene Glycol

MAK Value

N/E
N/E

MEL / OES

N/E
474.00 mg/m³

Notes: No Additional Information

Engineering controls

Always provide effective general and, when necessary, local exhaust ventilation to draw fumes, vapors and/or dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Eye/face protection

Wear chemical safety goggles or equivalent eye protection.

Skin protection

Wear protective gloves.

Respiratory protection

Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit (s) of any chemical substance listed in this MSDS.

General protection

No Additional Information

9 - Physical and Chemical Properties

Form	Viscous liquid	pH	6.6 - 7.5 (10%)
Appearance	Amber	% Volatile by weight	Approximately 80%
Odor	Not Available	Specific gravity	1.05
Solubility in water	Soluble	VOC	Not Available
Evaporation rate	Nil	Flash point	>212°F (>100°C)
Vapour pressure	<1	Boiling Point °F	Not Available
		Boiling Point °C	Not Available
Partition coefficient	Not Available		
Vapour density	> 1	Explosive range	LEL Not Available UEL Not Available
Viscosity	Not Available	Autoignition temperature	Not Available

GEO BIO FILM C

Melting point Not Available**Notes:** Amounts specified are typical and do not represent a specification.**10 - Stability and reactivity****Conditions to avoid**

None known.

Incompatibility with other materials

Avoid contact with strong oxidizing agents.

Hazardous decomposition products

Carbon dioxide and carbon monoxide. Oxides of Phosphorous.

Additional reactivity / stability information

None known.

Thermal processing emissions

Not Applicable

11 - Toxicological information

Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

<u>Chemical Name</u>	<u>LC50 Inhalation</u>	<u>Species</u>	<u>LD50 Oral</u>	<u>Species</u>	<u>LD50 Skin</u>	<u>Species</u>
Phosphoric Acid Ester Salt	N/E		N/E		N/E	
Propylene Glycol	65.80 ppm (8h)	Rat/ adult	> 21.00 g/kg	Rat/ adult	20.80 g/kg	Rabbit/ adult

<u>Chemical Name</u>	<u>LC50 Inhalation</u>	<u>Species</u>	<u>LD50 Oral</u>	<u>Species</u>	<u>LD50 Skin</u>	<u>Species</u>
Phosphoric Acid Ester Salt	N/E		N/E		N/E	
Propylene Glycol	N/E		22mg/kg	Mouse	N/E	

No toxicity studies have been conducted on this product.

12 - Ecological information

No ecological testing has been conducted on this product.

Freshwater algae: 96 hr EC50 *Selenastrum capricornutum*--19g/L. Freshwater fish: 96 hr LC50 *Oncorhynchus mykiss*--51.6g/L. Water flea: 48hr EC50--10g/L. Microtox: 30 min. EC50 *Photobacterium phosphoreum*--710 mg/L.**Notes:** No Additional Information**13 - Disposal information**

Liquids cannot be disposed of in a landfill. Dispose of waste at a licensed waste disposal company in accordance with local regulations.

14 - Transportation information

GEO BIO FILM C

UN/NA Number:	N/A	Hazard Class:	N/A	IMDG Class:	N/A
Packing Group:	N/A	ICAO/IATA Class:	N/A	TDG Class:	N/A
ADR/RID Class:	N/A				

Name of Material: Not regulated - See Bill of Lading for Details

Notes: No Additional Information

15 - Regulatory information

EU Classification:

Categories of Danger: This material is not subject to classification according to European Union Directives 67/548 and its amendments including 92/32/EEC, 1999/45/EC, and 2001/58/EC.

Indication(s) of Danger:

EU R phrases:
Not Applicable

EU S phrases:
Not Applicable

(EINECS / ELINCS):
Compliant

Water hazard classification (Germany):
Not assessed

U.S. Toxic Substances Control Act (TSCA):
All components of this product are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations.

Canadian Domestic Substance List (DSL):
All components in this product are on the Canadian Domestic Substances List (DSL) or are exempt from listing.

Notes: No Additional Information

16 - Other Information

Risk phrases:

Reason for revision

GEO BIO FILM C

Changes in Section(s): Not Applicable

Notes: No Additional Information**Legend:**

CAS No:	Chemical Abstract Service Registry Number
COSHH:	Control of Substances Hazardous to Health (United Kingdom)
IARC:	International Agency for Research on Cancer
MAK:	Maximale Arbeitsplatz-Konzentration (Maximum Workplace Concentration) (Germany)
MEL:	Maximum Exposure Limit (COSHH)
N/A:	Not Applicable
N/E:	None Established
OES:	Occupational Exposure Standard (COSHH)
S:	Can be absorbed through the skin
STEL:	Short Term Exposure Limit (COSHH)
TWA:	Time Weighted Average (exposure for 8-hour workday)
IIIA1:	Substances shown to induce malignant tumors in humans
IIIA2:	Substances shown to be clearly carcinogenic only in animal studies but under conditions indicative of carcinogenic potential at the workplace
IIIB:	Substances which are suspected of possessing significant carcinogenic potential which urgently needs further clarification

Users Responsibility/Disclaimer of Liability

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

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