

BIOSAFE™ FOG

1: PRODUCT AND COMPANY IDENTIFICATION

Product: BioSafe F.O.G.® Fats, Oil &Grease Microbial Cleaner **Product Number:**
Name: BioSafe F.O.G.® Fats, Oil &Grease Microbial Cleaner
Recommended Use: Microbial preparation Cleaner.

Uses Advised Against: Other than per labelled instructions

Manufacturer Address:
 Surface Cleaning Innovation, LLC
 10445 Cogdill Road
 Knoxville, TN 37932

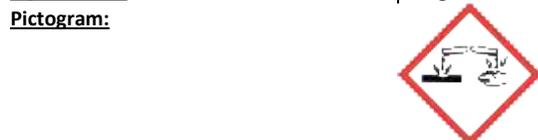
Telephone: 1-865-343-0712
 Email: info@sciclean.com
 Internet: www.sciclean.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure of Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

Classification: Serious eye damage: Category 1

Signal Word: Danger



Hazard Statements: H318 Causes serious eye damage

Precautionary Statements:

Prevention:
 P280 Wear eye protection/ face protection.

Response:
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Other Hazards: None Known

Supplemental Information: None

3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture : Mixture

Ingredient	CAS Number	Weight %*
Benzenesulfonic acid, C10-16-alkyl derivs	68584-22-5	10 - 20%
Tetrasodium ethylenediaminetetraacetate	64-02-8	1 - 5%
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5%

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

General advice : Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital. Remove contact lenses.
Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media :	High volume water jet.
Specific hazards during firefighting :	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products:	Carbon oxides, Sulfur oxides, Nitrogen oxides (NOx)
Further information :	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters :	Wear self-contained breathing apparatus for firefighting if necessary.

6: ACCIDENTAL RELEASE MEASURES:

<u>Personal Precautions:</u>	Use personal protective equipment.
<u>Environment Precautions:</u>	Collect spillage.
<u>CONTAINMENT AND CLEAN-UP:</u>	
<u>Methods and materials for containment and cleaning up:</u>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7: HANDLING AND STORAGE

<u>Precautions for Safe Handling:</u>	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
<u>Conditions for Safe Storage:</u>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
<u>Advice on protection against fire and explosion :</u>	Normal measures for preventive fire protection.
<u>Other Information:</u>	N/A

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

<u>Respiratory protection :</u>	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
<u>Hand protection Remarks :</u>	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
<u>Eye protection :</u>	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
<u>Skin and body protection :</u>	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures :

When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Odor:	Data not available
Odor Threshold:	Data not available
pH:	Data not available
Freezing Point:	Data not available
Boiling Point:	Data not available
Flash Point:	> 100 °C (212 °F)
Evaporation Rate:	Data not available
Flammability (solid/gas):	Data not available
Upper/Lower Flammability Limits:	Data not available
Vapor Pressure:	Data not available
Vapor Density:	Data not available
Relative Density:	1.009
Solubility:	Data not available
Partition Coefficient:	Data not available
Auto Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available
VOC:	Data not available

10: STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Stability:	Stable under normal conditions.
Hazardous Reactions:	No decomposition if stored and applied as directed
Conditions to Avoid:	No data available
Incompatible Materials:	Acids, Aluminum, Bases, Halogens, Oxidizing agents.

11: TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity :	Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity :	Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity :	Acute toxicity estimate: > 5,000 mg/kg

Components :**68584-22-5:**

Acute oral toxicity :	Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity :	LC50 (Rat, male and female): > 1.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity :	Assessment: The component/mixture is moderately toxic after single contact with skin. Remarks: Based on data from similar materials

64-02-8:

Acute oral toxicity :	LD50 (Rat): 630 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity :	LC50 (Rat): 10 mg/l Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation.
Acute dermal toxicity :	Remarks: No data available

68439-46-3:

Acute oral toxicity :	Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity :	Remarks: No data available
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation**Components:****64-02-8:**

Species: Rabbit
Result: No skin irritation

68439-46-3:

Result: No skin irritation
Remarks: Based on data from similar materials

Serious eye damage/eye irritation**Components:****68584-22-5:**

Species: Rabbit
Result: Irritating to eyes.

64-02-8:

Species: Rabbit
Result: Risk of serious damage to eyes.

68439-46-3:

Species: Rabbit
Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation**Components:****64-02-8:**

Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals

68439-46-3:

Test Type: Maximization test
Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals

Germ cell mutagenicity

Components:

64-02-8:

Germ cell mutagenicity - Assessment:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects

68439-46-3:

Genotoxicity in vitro :

Test Type: Ames test
Species: Salmonella typhimurium
Result: negative

Germ cell mutagenicity - Assessment :

Mutagenicity classification not possible from current data

Carcinogenicity

Components:

64-02-8:

Carcinogenicity - Assessment:

No evidence of carcinogenicity in animal studies.

68439-46-3:

Carcinogenicity - Assessment:

Carcinogenicity classification not possible from current data.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

64-02-8:

Teratogenicity - Assessment:

No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

68439-46-3:

Reproductive toxicity - Assessment:

Fertility classification not possible from current data.

Teratogenicity - Assessment:

Embryotoxicity classification not possible from current data.

Aspiration toxicity

Components:

64-02-8:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

12: ECOLOGICAL INFORMATION

Ecotoxicity

Components:

64-02-8:

Toxicity to fish:

LC50 (Lepomis macrochirus (Bluegill sunfish)): 486 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates :

LC50 (Daphnia magna (Water flea)): 625 mg/l
Exposure time: 24 h
Test Type: static test

Toxicity to algae :

EC50 (Desmodesmus subspicatus (green algae)): 2.77 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test

Acute aquatic toxicity- Assessment :

Toxic to aquatic life

Chronic aquatic toxicity- Assessment :

Toxic to aquatic life with long lasting effects.

68439-46-3:

Toxicity to fish :

LC50 (Pimephales promelas (fathead minnow)): 12 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates :	EC50 (Daphnia magna (Water flea)): 5.4 mg/l Exposure time: 48 h
Toxicity to algae :	ErC50 (Desmodesmus subspicatus (green algae)): > 8.9 mg/l Exposure time: 72 h
Acute aquatic toxicity- Assessment :	Very toxic to aquatic life.
Chronic aquatic toxicity- Assessment :	Harmful to aquatic life with long lasting effects
Persistence and degradability	
Components:	
68439-46-3:	
Biodegradability :	Remarks: Readily biodegradable, according to appropriate OECD test.
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
Product:	
Ozone-Depletion Potential :	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information :	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

Waste from residues :	Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs, contact Microbial Restoration Services LLC-Infotrac 1-800-535-5350.
Contaminated packaging :	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

DOT (Department of Transportation): Not regulated as a dangerous good

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

15: REGULATORY INFORMATION

EP CRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards :

Serious eye damage or eye irritation

SARA 302 :

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 :

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

7732-18-5	Water
68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivs.
Not Assigned	Proprietary component of NOVO MAC 10X FF
68439-46-3	Alcohols, C9-11, ethoxylated
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA :	On TSCA Inventory
DSL :	All components of this product are on the Canadian DSL
AICS :	Not in compliance with the inventory
NZIoC :	not determined
ENCS :	Not in compliance with the inventory
KECI :	Not in compliance with the inventory
PICCS :	Not in compliance with the inventory
IECSC :	Not in compliance with the inventory

16: OTHER INFORMATION

Abbreviations Used:

N/A - Not Applicable
N/E - Not Established
N/L - Not Listed

Revision Information:

Jan. 5, 2020 - SDS issue

	
Health:	3
Flammability:	1
Reactivity:	0

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents

This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****