Safety Data Sheet (SDS)
AMALIE Elixir Syn-Blend Calcium Sulfonate Grease

Product Code: N/A
Revision Date: 07/17/2024

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s):	AMALIE Elixir Syn-Blend Calcium Sulfonate Grease		
Product Code(s):	Not available		
Uses:	A petroleum-based grease.		
Company:	Amalie Oil Company		
Address:	1601 McCloskey Blvd; Tampa FL 33605; USA		
Telephone Number:	(813) 248-1988	Fax Number:	(813) 248-1488
Emergency Telephone Number:	For Hazardous Materials [or Dangerous Goods] Incident (24 hours/day)		
	ChemTel Inc. (800) 255-3924; +1 (813) 248-0585		
Date Issued:	May 20, 2022	Date Revised:	May 20, 2022

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Signal Word: **DANGER**

GHS Classification:
Eye Irritation (Category 1)
Skin Irritation (Category 2)

GHS Hazard Statements:
Causes serious eye damage
Causes skin irritation

GHS Precautionary Statements:

Prevention:
Wear protective gloves/eye protection/ face protection.
Wash hands/skin thoroughly after handling.

Response:
Immediately call a poison center/doctor/ hospital.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin: Wash with plenty of water/soap.
Take off contaminated clothing and wash it before reuse.

Storage:
None.

Disposal:
None.

SECTION 2 HAZARDS IDENTIFICATION

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately < 40% of this mixture consists of ingredient(s) of unknown acute toxicity.

Approximately < 40% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Mineral oils	Mixture	---	> 50.0%
	Classification: Carc. 1B: H350 (*) Carc. 1B; H350: C ≥ 3.0 % DMSO Repr. 2; H361d: C ≥ 3.0 % DMSO Asp. Tox. 1; H304: Viscosity ≤ 20.5 mm2/s (40ºC)		
Calcium carbonate	471-34-1	207-439-9	1.0 - 5.0%
	Not classified as hazardous		
Calcium dodecylbenzenesulfonate	26264-06-2	247-557-8	1.0 - 5.0%
	Classification: Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 4: H413		

Note (*): Components are highly refined and this hazard does not apply.
Other components are either non-hazardous or do not significantly contribute to the hazards of the product.
Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention immediately if irritation develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, immediately call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms / Effects – Acute and Delayed: Tissue inflammation, tissue ulceration, nausea, diarrhea, weakness.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:	Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.
Specific Hazards:	This product is not flammable, but will burn in a fire. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.
Protective equipment and procedures for fire-fighters.	Wear full protective clothing and self-contained breathing apparatus.
Additional Advice:	None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Small spills: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water/soap or an appropriate solvent, as this product is not appreciably soluble in water alone. Large spills: Contain spilled material if possible. Pump or collect into suitable and properly labeled containers.
Personal Precautions:	Wear suitable protective clothing and equipment.
Environmental Precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling:	Wear appropriate personal protection (See Section 8) when handling this material. The work area should be equipped with a safety shower and eye wash station. If exposed to the grease, avoid contact with skin and eyes. Wash thoroughly after handling. Use in a well-ventilated area.
Storage:	Keep container(s) tightly closed. Use and store this material at room temperature away from sources of ignition, heat, direct sunlight and hot metal surfaces. Keep away from any incompatible materials (see Section 10).
Additional Advice:	Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Standards:	Exposure limits are listed below, if they exist.
Mineral oils:	(as petroleum distillates – naphtha) NIOSH REL: 350 mg/m3 TWA. NIOSH REL: 1800 mg/m3 STEL. OSHA PEL: 500 ppm (2000 mg/m3). (as oil mist) NIOSH REL: 5 mg/m3 TWA. NIOSH STEL: 10 mg/m3 TWA. OSHA PEL: 5 mg/m3 TWA.
Calcium carbonate:	ACGIH TLV: 10 mg/m3 TWA. UK: 4 mg/m3 TWA (respirable). UK: 10 mg/m3 TWA (total inhalable). OSHA PEL: 5mg/m3 TWA (respirable). OSHA PEL: 15 mg/m3 TWA (total dust).

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Calcium dodecylbenzene sulfonate:	None.
Engineering Control Measures:	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection:	A NIOSH certified self-contained breathing apparatus or air purifying respirator with an organic cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits.
Hand Protection:	The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
Eye Protection:	Approved eye protection (safety glasses with side-shields or goggles) to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.
Body Protection:	Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Semi-solid
Color:	Green
Odor:	Characteristic
Odor Threshold:	Not available.
pH:	Not available.
Melting Point/Range (ºC/ºF):	Not available.
Boiling Point/Range (ºC/ºF):	> 200ºC / 392ºF (based on constituents)
Flash Point (PMCC) (ºC/ºF):	> 150ºC / 302ºF (based on constituents)
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	< 0.075 mmHg (20ºC) (based on constituents)
Vapor Density (Air = 1):	Not available.
Relative Density:	< 1.0 g/cm3 (25ºC)
Solubility in Water:	Insoluble
Partition Coefficient:	Not available.
Autoignition Temperature (ºC/ºF):	> 250ºC / 482ºF (based on constituents)
Decomposition Temperature (ºC/ºF):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	> 500 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.

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Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat.
Incompatibilities:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon, oxides of sulfur, metal oxides, aliphatic and aromatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity:
This product is not expected to be appreciably toxic.
(Mineral oils) Oral LD50 (rat) > 5000 mg/kg (similar oil); Dermal LD50 (rabbit) > 5000 mg/kg (similar oil); Inhalation LC50 (rat) > 5.53 mg/l (4 hr) (aerosol) (no mortality – similar oil)
(Calcium carbonate) Oral LD50 (rat) 6450 mg/kg
(Calcium dodecylbenzenesulfonate) Oral LD50 (rat) 1300 mg/kg; Dermal LD50 (rabbit) 2000 mg/kg (surrogate compound); Inhalation LC50 (rat) 310 mg/m3 (4 hr – aerosol – surrogate compound)

Skin Corrosion / Irritation:
The product may be irritating to the skin.
(Mineral oils) Mildly irritating to skin (rabbit – similar oil).
(Calcium carbonate) Non-irritating to skin (rabbit).
(Calcium dodecylbenzenesulfonate) Irritating to skin (rabbit).

Serious Eye Damage / Irritation:
The product may be irritating to the eyes with possible damage.
(Mineral oils) Non-irritating to eyes (rabbit – similar oil).
(Calcium carbonate) Slightly irritating to eye (rabbit).
(Calcium dodecylbenzenesulfonate) Irritating to eye with possible damage (rabbit).

Respiratory or Skin Sensitization:
The product is not expected to be dermally sensitizing.
(Mineral oils) Not dermally sensitizing (guinea pig – similar oil).
(Calcium carbonate) Not dermally sensitizing (Mouse local lymphnode assay).
(Calcium dodecylbenzenesulfonate) Not dermally sensitizing (guinea pig – surrogate compound).

Mutagenicity:
This product is not expected to be mutagenic.
(Mineral oils) Not mutagenic (in vitro mammalian chromosome aberration test and micronucleus assay - similar oil).
(Calcium carbonate) Not mutagenic (Ames test, in vitro mammalian chromosome aberration test and mammalian cell gene mutation assay).
(Calcium dodecylbenzenesulfonate) Not mutagenic (Ames test and in vitro mammalian chromosome aberration test and rodent dominant lethal assay – surrogate compound).

Carcinogenicity:
This product is not expected to be carcinogenic.
(Mineral oils) Carcinogenic potential is reduced for highly refined distillates. Tumors have developed in animal studies, but were dependent on the concentration of impurities. Not classified as to carcinogenicity to humans (IARC – Petroleum solvents).
(Calcium carbonate) Not carcinogenic (orally administered rats).
(Calcium dodecylbenzenesulfonate) In a 2-year oral study in rats at up to 250 mg/kg/day, there was no evidence of carcinogenic potential (surrogate compound).

Reproductive / Developmental Toxicity:
This product is not expected to be reproductively or developmentally harmful.
(Mineral oils) Reproductive performance and offspring development were not

SECTION 11 TOXICOLOGICAL INFORMATION

	adversely affected in mice or rats (1000 mg/kg – similar oil). (Calcium carbonate) Excessive oral consumption during pregnancy showed increased potential for cardiovascular, cerebral, neurologic, gastrointestinal and renal systems effects on offspring (human). (Calcium dodecylbenzenesulfonate) In an oral study in rats, the NOAEL for maternal toxicity was 300 mg/kg/day based on mortality and reduced body weights and the NOAEL for offspring was 600 mg/kg/day based on no teratogenicity observed (surrogate compound).
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	(Mineral oils) No data. (Calcium carbonate) No data. (Calcium dodecylbenzenesulfonate) In an acute oral toxicity study (rats), there was a high incidence of diarrhea, malaise, weakness and reduced voluntary activity at concentrations above 1300 mg/kg (no gross abnormalities were found).
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	(Mineral oils) In a 13-week oral study in rats at up to 500 mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/discoloration of organs and atrophy in male sex organs (similar oil). (Calcium carbonate) Renal and other systemic effects have been noted (human). (Calcium dodecylbenzenesulfonate) In a 28 day oral study in rats at up to 400 mg/kg/day, the NOAEL was 100 mg/kg/day based on effects to the forestomach.
Aspiration Hazard:	This product does not pose an appreciable aspiration hazard.
Additional Information:	None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity:	This product may be harmful to aquatic species. Classification is not required, based on constituent degradability and bioaccumulation data. (Mineral oils) LL50 (Fathead minnow) > 100 mg/l/96 hr (similar oil); EL50 (Daphnia magna) > 10000 mg/l/48 hr (similar oil); NOEL (algae) > 100 mg/l/72 hr (similar oil). (Calcium carbonate) LC50 (mosquitofish) > 56,000 mg/l/24-96 hr. (Calcium dodecylbenzenesulfonate) LC50 (Common carp) 2.8 mg/l/ 48 hr; LC50 (daphnid) 40 mg/l/3 hr; EC50 (algae) 65.4 mg/l/72 hr (surrogate compound).
Mobility:	(Mineral oils) Not expected to be mobile in soil. (Calcium carbonate) No data. (Calcium dodecylbenzenesulfonate) No data.
Persistence/Degradability:	(Mineral oils) Not inherently biodegradable (2-4% in 28 days – similar oil). (Calcium carbonate) No data. (Calcium dodecylbenzenesulfonate) Readily biodegradable (> 75% in 11 days – surrogate compound).
Bioaccumulation:	(Mineral oils) May contain constituents with the potential to bioaccumulate. (Calcium carbonate) No data. (Calcium dodecylbenzenesulfonate) An estimated BCF of 70.79 suggests the potential for bioconcentration in aquatic organisms is low.
Other adverse effects:	None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions:	Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.
Product Disposal:	Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal:	Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT (US):

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packaging Group:	None.
Reportable Quantity:	1000 pounds (Calcium dodecylbenzenesulfonate)
Marine Pollutant:	None.

IATA:

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packing Group:	None.

IMDG:

Proper Shipping Name:	Not regulated
UN Number:	None.
Class:	None.
Packing Group:	None.
Marine Pollutant:	None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act:	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Canadian Domestic Substance List:	All components of this product are listed on the Canadian Domestic Substance List.
EU REACh:	One or more components of this product may not have been pre-listed or registered under REACh. Limited quantities may be permitted.

SECTION 15 REGULATORY INFORMATION

TSCA Sec.12(b) Export Notification:	This product does not contain a chemical at or above de minimis concentrations which requires reporting.
Canadian WHMIS Classification:	D.2.B This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.
Massachusetts Right-To-Know:	This product contains materials subject to disclosure under the Massachusetts Right-To-Know Law: - Mineral oils (as petroleum distillates) - Calcium carbonate - Calcium dodecylbenzenesulfonate
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Mineral oils (as petroleum distillates) - Calcium carbonate (4001) - Calcium dodecylbenzenesulfonate
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law: - Mineral oils (as petroleum distillates) - Calcium carbonate - Calcium dodecylbenzenesulfonate
California Proposition 65:	This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm: - Titanium dioxide (airborne particles) (0.5%) - Hexane (0.0005%) - Naphthalene (0.0005%)
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard (as of 2018, the EPA has adopted GHS hazard classifications)
SARA TITLE III-Section 313 (40 CFR 372):	This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Calcium dodecylbenzenesulfonate (1000 pounds)
Water Hazard Class (WGK):	This product is slightly water-endangering (WGK=1).

Other Chemical Inventories:		
	Australia (AICS):	All components of this product are listed.
	China (IECSC):	All components of this product are listed.
	Japan (ENCS):	All components of this product are listed.
	Korea (KCI):	One or more components are not listed.
	Philippines (PICCS):	All components of this product are listed.
	Taiwan (TCSI):	One or more components are not listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH:	2
NFPA Rating - FIRE:	1
NFPA Rating - REACTIVITY:	0
NFPA Rating - SPECIAL:	NONE

SECTION 16 OTHER INFORMATION

Full text of H-Statements referred to under Section 3:

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H413	May cause long lasting harmful effects to aquatic life

SDS Date Issued: May 20, 2019

SDS Current Version: 1.0 Version Date: May 20, 2022

SDS Revision History: v1.0 Initial version.

Abbreviations:

GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
CAS#:	Chemical Abstract Services Number
ACGIH:	American Conference of Governmental Industrial Hygienists
OSHA:	Occupational Safety and Health Administration
NFPA:	National Fire Protection Association
DOT:	US Department of Transportation
RCRA:	US Resource Conservation and Recovery Act
TLV:	Threshold Limit Value
TWA:	Time-Weighted Average
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
WEEL:	Workplace Environmental Exposure Levels
AIHA:	American Industrial Hygiene Association
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
LD50:	Lethal Dose 50%
LC50:	Lethal Concentration 50%
NOAEL:	No Observed Adverse Effect Level
NOEL:	No Observed Effect Level
EC50:	Effective Concentration 50%
LL50:	Lethal Loading Rate 50%
BCF	Bioconcentration Factor
BOD:	Biological Oxygen Demand
Koc:	Soil Organic Carbon Partition Coefficient.
Tlm:	Median Tolerance Limit

Key References:

United States National Library of Medicine's TOXNET
Patty's Toxicology, 5th Edition
European Commission's Institute for Health and Consumer Protection
European Chemicals Agency (ECHA)
American Conference of Governmental Industrial Hygienists
International Agency for Research on Cancer
United States National Toxicology Program
United States Occupational Safety and Health Administration
United States Department of Transportation
Supplier Material Safety Data Sheets

Disclaimer:

The data contained herein is based on information that the company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of the company is authorized to vary any of such data. The

SECTION 16 OTHER INFORMATION

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Prepared by: *ChemOne Compliance, LLC*