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Date: 06 / 28 / 2023

Version: 2

Cancels and replaces version: 1

SECTION 1. IDENTIFICATION

Product Name/Identifier	FSS LipoSolve FSSB20058
Product Code	Industrial Use
Recommended Use	None known
Restrictions on Use	
Supplier Site	Formulator Sample Shop
Address	135 Joshua Court Lincolnton, NC 28092, USA
Telephone No. (24hrs)	1-704-276-7540
Emergency Telephone #	1-704-276-7540 (Mon-Fri: 8:00AM – 5:00PM EST)

SECTION 2. HAZARD(S) IDENTIFICATION**Classification:****GHS / CLP**

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification: -According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.
-This product is not classified as hazardous to health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol expected

Hazard statements/Signal Word: Not applicable

Precautionary statements: P233: Keep container tightly closed
P281: Use personal protective equipment as required
P402: Store in a dry place
P404: Store in a closed container
P410: Protect from sunlight
P411: Store at temperatures not exceeding 32°C

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Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hydroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 1; Irritation or minor reversible injury possible

Flammability: Rating 1; Material must be preheated before ignition will occur

Reactivity: Rating 0, Stable

Other Hazard Information: None

Results of PBT and vPvB assessment:

-PBT: Not applicable

-vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**Chemical Name:** Polyglycerol esters of fatty acids**Hazardous Ingredients:** None**Formula:** Not applicable**SECTION 4. FIRST-AID MEASURES****General:** Change soaked clothing. In all cases of doubt, or when symptoms persist, seek medical attention.**Inhalation:** Move to fresh air from exposure area. Get medical attention for any breathing difficulty.**Skin contact:** Rinse with soap and water. Get medical advice if irritation develops.**Eye contact:** Immediately flush with plenty of water while protecting the unhurt eye. If irritation continues, consult a physician.**Ingestion:** Call for medical advice immediately. Show the container or label. Thoroughly clean the mouth with water.**Most important symptoms and effects, both acute and delayed:** Not determined**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically

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SECTION 5. FIRE-FIGHTING MEASURES**Fire and explosion hazards:** Not considered to be a fire and explosion hazard**Extinguishing media:****Suitable:** Water spray, dry powder, foam and carbon dioxide**Not suitable:** Full water jet**Fire fighting:** Move container from fire area if it can be done without risk.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low area
In the event of fire carbon dioxide and carbon monoxide can be released.**Advise for fire-fighters:** Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suite.**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions:** Avoid contact with eyes.
Personal Protective Equipment:
-Protective goggles**Environmental precautions:** Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system. Do not discharge into the subsoil/soil.**Methods for cleaning up:****Recovery:** Pick up free liquid with absorbent material (e.g. sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with regulations.**Cleaning/Decontamination:** Wash non-recoverable remainder with water.**Disposal:** For disposal of residues refer to sections 8 & 13.**SECTION 7. HANDLING AND STORAGE****Handling****Technical measures:** Labeling: Keep out of the reach of children.
Measures: For industrial use, only as directed. Ensure adequate ventilation.
Safe handling advice: Wash hands after use. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Avoid storage near feed or food stuff.**Storage****Technical measures:** Keep container closed.
Recommended Storage Conditions: Store in a cool, dry place. Do not store below 5°C or above 25°C. Do not freeze.

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Incompatible products: None known
 Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Product may be packaged in normal commercial packaging.
Packaging materials: Recommended - Polypropylene & High Density Polyethylene

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Exposure Limit(s):

Ingredient	CAS Number	Statutory Basis/List (Update)	Value Type (Form of Exposure; Expressed as)	Value	Short-term
1,2,3-Propanetriol	56-81-5	OSHA Z1 (02 2006)	PEL (Respirable fraction)	5 mg/m ³	
		OSHA Z1 (02 2006)	PET (Total dust)	15 mg/m ³	

Engineering controls: General (mechanical) ventilation should be sufficient to control airborne levels.

Personal Protective Equipment:

Respiratory protection: Local exhaust
Hand protection: Protective gloves made of nitril (NBR). Break through time: > 480 min.
 Glove thickness: 0.4 mm

Eye protection: Chemical resistant goggles or safety glasses with side shields.
Collective emergency equipment: Eye fountain.
Skin and Body Protection: Suitable protective clothing

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly turbid liquid
Color: Light yellow
Odor: Characteristic
Gardner: 4.0 Maximum
Acid Value: 5.0 Maximum
Saponification Value: 68.0 – 80.0
Water Content: 11.0 – 13.0

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Microbial Content: < 100 CFU/g: No pathogens
Yeast & Mold: < 100 CFU/g
Gram Negative Bacteria: 0 CFU/g

Relative Density: Not determined

Vapor density: Not determined
Boiling Point: > 300°C
Freezing Point: Not determined
Melting point: Not determined

Flash point: > 392°F
Oxidizing properties: Not determined

Solubility:
In water: Dispersible

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No hazardous reaction with proper storage and handling.

Stability: Stable under normal conditions of use and storage.

Hazardous reactions: No hazardous reaction with proper storage and handling.

Conditions to avoid: Avoid extreme heat and cold.

Materials to avoid: No dangerous reaction known with common products.

Hazardous decomposition products: None known with proper storage and handling.

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion: Not Determined
Dermal: Non-Irritant
Ocular: Non-Irritant
Inhalation: Not Determined

Acute Toxicity:

Acute Oral Toxicity: 2,000 mg/kg - LD₅₀

Acute Inhalation Toxicity: Not Determined

Acute Dermal Toxicity: Not Determined

Respiratory/Skin Sensitization: Non-Sensitizer

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Repeated dose toxicity: Not Determined**CMR Assessment:**

Carcinogenicity:	Not Determined
Mutagenicity:	Not Determined
Teratogenicity:	Not Determined
Reproductive toxicity:	Not Determined

US National Toxicology Program (NTP) Report on Carcinogens:

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

US IARC Monographs on Occupational Exposures to Chemical Agents:

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

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No component of this product is present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

Specific Target Organ Toxicity – Single Exposure: Not Determined**Specific Target Organ Toxicity – Repeated Exposure:** Not Determined**Aspiration Hazard:** No aspiration toxicity classification

Other Information: Proper use provided, no adverse health effects have been observed or have been come to our knowledge. The product has not been tested. The information is derived from products of similar composition.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity:**

Acute Aquatic Toxicity:	Not Determined
Chronic Aquatic Toxicity:	Not Determined

Toxicity:

Aquatic toxicity, fish:	Not Determined
Aquatic toxicity, invertebrates:	Not Determined
Aquatic toxicity, algae/aquatic plants:	Not Determined
Toxicity in microorganisms:	Not Determined
Chronic toxicity in fish:	Not Determined
Chronic toxicity in aquatic invertebrates:	Not Determined
Toxicity in organisms which live in the soil:	Not Determined
Toxicity in terrestrial plants:	Not Determined
Toxicity to above-ground organisms:	Not Determined

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Persistence & Degradability:

Photodegradation:	Not Determined
Biological Degradability:	Readily Biodegradable
Physico-chemical removability:	Not Determined
Biochemical Oxygen Demand (BOD):	Not Determined
Chemical Oxygen Demand (COD):	Not Determined
Relation of BOD/COD:	Not Determined
Dissolved Organic Carbon (DOC):	Not Determined
Absorbed Organic bound halogens (AOX):	Not Determined
Distribution among environmental compartments:	Not Determined

Bioaccumulation Potential:

Bioaccumulation:	Not Determined
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Mobility in soil:

Environmental Distribution:	Not Determined
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Results of PBT and vPvB assessment:	Not Determined
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Other adverse effects:

General information:	Do not allow to enter soil, waterways or waste water canal. The product is considered to be a weak water pollutant (German law). The product has not been tested. The information is derived from products of similar composition.
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SECTION 13. DISPOSAL CONSIDERATIONS**Residues from product**

Prohibition:	Do not allow the product to be released into the Environment.
Destruction/Disposal:	Dispose of in accordance with relevant local regulations

Contaminated packaging

Decontamination/cleaning:	If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.
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Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number:	None
UN Shipping Name:	None

Transport Hazard Class:	Not classified as dangerous for transport
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Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG
Air: Material is not restrictive for air transport and is not regulated by ICAO/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15. REGULATORY INFORMATION**Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the Safety Data Sheet contains all information required by the Controlled Products Regulation:

Canada: WHMIS Classification
Non-WHMIS
This product does not contain component(s) on the WHMIS Ingredient Disclosure List

US Regulations:**SARA Title III Hazard Designation Sections 311/312:**

No SARA Hazards

Section Title III 313 Toxic Chemicals:

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.

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Other Regulations: None

State Right to Know:

Components	CAS Number
1,2,3-Propanetriol	56-81-5

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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Notification Status:

USA (TSCA): Not listed/registered
Canadian (CEPA DSL) inventory status: Listed/registered or exempted
Remark: All intentional ingredients are listed on the Domestic Substance List (DSL) or have been notified pursuant to the NSN regulations.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 06/28/2023

Preparation Date: 03/11/2021

MSDS summary of changes Revision to date, updated logo, updated Section 9

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.