

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: LipidSoft™ Spread

Chemical name:
bis(2-ethylhexyl) carbonate

Other means of identification
CAS Number: 14858-73-2

Recommended restrictions
Recommended use: Industrial Use
Restrictions on use: None known.

Distributor Information

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THAILAND

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2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement:	Causes skin irritation.
Precautionary Statements	
Prevention:	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Chemical name:
bis(2-ethylhexyl) carbonate

Substances

4. First-aid measures

Description of necessary first-aid measures

General information:	Remove soiled or soaked clothing immediately
Inhalation:	Ensure supply of fresh air.
Skin Contact:	Immediately and thoroughly, wash off with soap and water.
Eye contact:	Flush eye immediately and thoroughly while protecting the unhurt eye. If symptoms persist, seek medical attention.
Ingestion:	If swallowed, do not induce vomiting. Seek medical advice immediately and show this data sheet.
Personal Protection for First-aid Responders:	As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Most important symptoms/effects, acute and delayed

Symptoms:	No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: Full water jet

Specific hazards arising from the chemical: In the event of fire the following can be released: - carbon dioxide, carbon monoxide

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No specific precautions.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

Methods and material for containment and cleaning up: Take up with absorbent material (eg sand, kieselguhr, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Good general (mechanical) ventilation should be sufficient to control airborne levels.

Safe handling advice: No data available.Ensure adequate ventilation.

Contact avoidance measures: No data available.

Hygiene measures: No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.

Storage

Safe storage conditions: Keep container tightly closed.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.
Hazardous components without workplace control parameters

Appropriate Engineering Controls

Good general (mechanical) ventilation should be sufficient to control airborne levels.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Use chemical resistant goggles or safety glasses with side shields.
Skin Protection	
Hand Protection:	Additional Information: PVC gloves
Skin and Body Protection:	Light protective clothing is required.
Respiratory Protection:	In case of formation of vapors/aerosols: respiratory protective equipment, cartridge for organic gases and vapors.
Hygiene measures:	No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	slight, specific
Odor Threshold:	not measured
pH:	Not applicable
Freezing point:	< -100 °C (OECD 102)
Boiling Point:	603 °F (1,013 hPa) (OECD 103)
Flash Point:	319 °F (DIN EN ISO 2719)
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available

Explosive limit - upper (%):	not explosive
Explosive limit - lower (%):	not explosive
Vapor pressure:	0.01 Pa (20 °C)
Vapor density (air=1):	not measured
Density:	0.90 g/cm ³ (20 °C) (OECD 109)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	< 0.030 mg/l (20 °C)
Solubility (other):	Ethanol.: soluble
Partition coefficient (n-octanol/water):	> 4.1 (OECD 107)
Self Ignition Temperature:	315 °C (EEC method 92/69/EEC, A 15)
Decomposition Temperature:	not measured
Kinematic viscosity:	No data available.
Dynamic viscosity:	6 mPa.s (20 °C, Brookf-Visc.RVT Sp.1)
Other information	
Explosive properties:	no danger of explosion
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition temperature:	315 °C (DIN 51794)
Metal Corrosion:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No No hazardous reactions with proper storage and handling.
Conditions to avoid:	None with proper storing and handling.
Incompatible Materials:	Unknown
Hazardous Decomposition Products:	None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	> 2,000 mg/kg
Dermal Product:	LD 50 (Rat): > 2,000 mg/kg
Inhalation Product:	Considered not harmful by inhalation due to a low vapour pressure., No exposure expected.

Repeated dose toxicity

Product:	NOAEL (Rat, Oral): 275 mg/kg No data available. This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy). NOAEL (Rat, Oral): 1,000 mg/kg No data available. This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).
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Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: slight irritant effect - does not require labelling
Rabbit: slight irritant effect - does not require labelling

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay, OECD TG 429 (Mouse): not sensitizing tested as 15 % solution
Magnusson & Kligman, OECD 406 (according to Magnusson and Kligman) (Guinea Pig): not sensitizing
Buehler Test, OECD 406 (according to Bühler) (Guinea Pig): not sensitizing

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: bacterial reverse mutation assay (e.g. Ames test) (OECD 471): negative
Chromosomal aberration (OECD 473): negative
gene mutation (OECD 476): negative

In vivo

Product: In vivo micronucleus test (OECD TG 474): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: no data available

Specific Target Organ Toxicity - Repeated Exposure

Product: no data available

Aspiration Hazard

Product: Not classified

Other effects: Irritant to skin The substance has no mutagenic activity (Ames Test)

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Zebra Fish, 96 h): > 0.0234 mg/l No toxicity at the limit of solubility
NOEC (Zebra Fish, 96 h): > 0.0234 mg/l No toxicity at the limit of solubility

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): > 0.0197 mg/l In the range of water solubility
not toxic under test conditions.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: ErC50 (Desmodemus subspicatus, 72 h): > 0.0214 mg/l In the range of
water solubility not toxic under test conditions.
NOEC (Desmodemus subspicatus, 72 h): > 0.0214 mg/l In the range of
water solubility not toxic under test conditions.

Persistence and Degradability

Biodegradation

Product: > 60 % (28 d, OECD 301 F)

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Significant bioaccumulation need not be expected.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: > 4.1 21 °C (OECD 107) Yes

Mobility in soil: No data available.

Other adverse effects: Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

Disposal methods: In accordance with local authority regulations, take to special waste
incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver
must be informed about possible hazards.

14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Canada DSL Inventory List:	Included on Inventory.
US TSCA Inventory:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	<input type="text" value="2"/>
Flammability	<input type="text" value="1"/>
Physical Hazards	<input type="text" value="0"/>
PERSONAL PROTECTION	<input checked="" type="checkbox"/>

Ask supervisor or safety specialist for handling instructions

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/15/2019

Version #: 1.0

Further Information: CTFA: complies

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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