Revision date: 4/14/2023 Revision: 8 Supersedes date: 2/1/2023



# SAFETY DATA SHEET SFL-1

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200.

# 1. Identification

# **Product identifier**

Product name SFL-1

**Product number** L0197-035, L0197-039, L0197-040, L0197-098, L0197-006, L0197-040B, L0197-040NL

NSF Registration Number 043677

# Recommended use of the chemical and restrictions on use

**Application** Food-compatible grease.

**Uses advised against**No specific uses advised against are identified.

# Details of the supplier of the safety data sheet

Manufacturer Lubriplate Lubricants Co.

Corporate Headquarters 129 Lockwood Street Newark, NJ 07105

Midwest Office & Plant 1500 Oakdale Ave. Toledo, OH 43605 419-691-2491 419-693-3806

# Emergency telephone number

Emergency telephone Chem-Tel: 1-800-255-3924 (US & Canada only)

01-813-248-0585 (Outside US & Canada)

# 2. Hazard(s) identification

# Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Not Classified

**Environmental hazards** Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412

Label elements

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/ container in accordance with national regulations.

# Other hazards

This product does not contain any substances classified as PBT or vPvB.

# 3. Composition/information on ingredients

# **Mixtures**

White mineral oil (petroleum) 30-60%

CAS number: 8042-47-5

Classification

Not Classified

zinc oxide 1-5%

CAS number: 1314-13-2

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

# 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-

<1%

methyl-

CAS number: 94270-86-7

#### Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312

Skin Irrit. 2 - H315

Eye Irrit. 2A - H319 Skin Sens. 1B - H317

Aquatic Chronic 2 - H411

# 2,6-Di-tert-butyl-4-methylphenol

<1%

CAS number: 128-37-0

M factor (Acute) = 1 M factor (Chronic) = 1

#### Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments

\* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

# 4. First-aid measures

# Description of first aid measures

# General information

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

# Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Revision date: 4/14/2023 Revision: 8 Supersedes date: 2/1/2023

# SFL-1

Ingestion Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if

the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or

belt.

**Skin Contact** Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 10 minutes.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

#### Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms

described will vary dependent on the concentration and the length of exposure.

**Inhalation** A single exposure may cause the following adverse effects: Temporary irritation.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Prolonged contact may cause dryness of the skin.

**Eye contact** May be slightly irritating to eyes.

# Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

# 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapors.

# Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

# Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

# 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

# Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

# **Environmental precautions**

#### **Environmental precautions**

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

# Methods and material for containment and cleaning up

# Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

# 7. Handling and storage

# Precautions for safe handling

# Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

# Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

# Conditions for safe storage, including any incompatibilities

# Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Utilize retaining walls to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

#### Storage class

Miscellaneous hazardous material storage.

# Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.

# 8. Exposure controls/Personal protection

#### Control parameters

# Occupational exposure limits

White mineral oil (petroleum)

Mineral oil, excluding metal working fluids (pure, highly and severely refined) Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ inhalable fraction

#### zinc oxide

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ fume Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ respirable fraction Short-term exposure limit (15-minute): ACGIH 10 mg/m³ respirable fraction Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction

# 2,6-Di-tert-butyl-4-methylphenol

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction and vapor A4

OSHA = Occupational Safety and Health Administration. ACGIH = American Conference of Governmental Industrial Hygienists. A4 = Not Classifiable as a Human Carcinogen.

zinc oxide (CAS: 1314-13-2)

Immediate danger to life and health

500 mg/m<sup>3</sup>

# **Exposure controls**

#### Protective equipment







# Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

# Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with OSHA 1910.133. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

# Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

# Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures Provide eyewash station and safety shower. Contaminated work clothing should not be

allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried

out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection Respiratory protection complying with an approved standard should be worn if a risk

assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable

filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

Appearance Solid.

Color White.

Odor Mild.

Odor threshold Not available.

Melting point Not available.

Initial boiling point and range >288°C (>550.4°F)

Flash point > 204°C/399.2°F Cleveland open cup.

**Evaporation rate** < 0.01 (butyl acetate = 1)

Upper/lower flammability or

explosive limits

pΗ

Not available.

Not available.

Vapor pressure <0.0013 kPa @ 25°C

Vapor density > 5

Relative density 0.90 - 0.93

Solubility(ies) Insoluble in water.

Partition coefficient Not available.

Auto-ignition temperature Not available.

**Decomposition Temperature** Not available.

Viscosity Not available.

**Explosive properties** Not applicable.

Oxidizing properties Not available.

Other information None.

# 10. Stability and reactivity

**Reactivity** See the other subsections of this section for further details.

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

Possibility of hazardous

reactions

No potentially hazardous reactions known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid

No specific material or group of materials is likely to react with the product to produce a

hazardous situation.

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

# 11. Toxicological information

# Information on toxicological effects

Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

Notes (oral LD50) Based on available data the classification criteria are not met.

Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

Notes (inhalation LC<sub>50</sub>)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

**Summary** Based on available data the classification criteria are not met.

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

**Summary** Based on available data the classification criteria are not met.

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

**Summary** Based on available data the classification criteria are not met.

**Respiratory sensitization** Based on available data the classification criteria are not met.

Skin sensitization

**Summary** Based on available data the classification criteria are not met.

**Skin sensitization** Based on available data the classification criteria are not met.

Germ cell mutagenicity

Summary

Based on available data the classification criteria are not met.

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Revision date: 4/14/2023 Revision: 8 Supersedes date: 2/1/2023

SFL-1

Carcinogenicity

**Summary** Based on available data the classification criteria are not met.

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable

as to its carcinogenicity to humans.

Reproductive toxicity

**Summary** Based on available data the classification criteria are not met.

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

**Summary** Based on available data the classification criteria are not met.

**STOT - single exposure**Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

**Summary** Based on available data the classification criteria are not met.

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Summary Not relevant. Solid.

Aspiration hazard Not relevant. Solid.

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** A single exposure may cause the following adverse effects: Temporary irritation.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin Contact** Prolonged contact may cause dryness of the skin.

**Eye contact** May be slightly irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target Organs No specific target organs known.

12. Ecological information

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

**Summary** Based on available data the classification criteria are not met.

Chronic aquatic toxicity

**Summary** Harmful to aquatic life with long lasting effects.

Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility No data available.

Other adverse effects

Other adverse effects None known.

#### 13. Disposal considerations

#### Waste treatment methods

#### General information

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

# Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

# 14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

**UN Number** 

UN No. (International) Not applicable.
UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name (International)

Not applicable.

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels (International)

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

**Environmental hazards** 

**Environmentally Hazardous Substance** 

No.

#### Special precautions for user

Not applicable.

**DOT reportable quantity** Not applicable.

**DOT TIH Zone** Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

# 15. Regulatory information

**Regulatory References** OSHA Hazard Communication Standard 29 CFR §1910.1200

# **US Federal Regulations**

# SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed or exempt.

# CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed or exempt.

Benzoic acid

None of the ingredients are listed or exempt.

# SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed or exempt.

# SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Dec-1-ene, homopolymer, hydrogenated.dec-1-ene, oligomers, hydrogenated

1.0 %

zinc oxide

1.0 %

# **CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

# FDA - Essential Chemical

None of the ingredients are listed or exempt.

# FDA - Precursor Chemical

None of the ingredients are listed or exempt.

# SARA (311/312) Hazard Categories

None of the ingredients are listed or exempt.

# **OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

# **US State Regulations**

# California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

# California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

zinc oxide

# California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed or exempt.

#### California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Tetrasodium pyrophosphate

zinc oxide

# Inventories

# US - TSCA

All the ingredients are listed or exempt.

# US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

# 16. Other information

# Abbreviations and acronyms used in the safety data sheet

TDG: The transport of dangerous goods act

IATA: International air transport association.

ICAO: Technical instructions for the safe transport of dangerous goods by air.

IMDG: International maritime dangerous goods.

CAS: Chemical abstracts service. ATE: Acute toxicity estimate.

LC₅o: Lethal concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).

EC<sub>50</sub>: 50% of maximal effective concentration.

PBT: Persistent, bioaccumulative and toxic substance.

vPvB: Very persistent and very bioaccumulative.

Classification abbreviations

and acronyms

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Training advice Read and follow manufacturer's recommendations. Only trained personnel should use this

material.

**Revision comments** Revised classification.

Revision date 4/14/2023

Revision 8

Supersedes date 2/1/2023

**SDS No.** 4837

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**End of SDS** 

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.