

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: LFFH 68

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier

Company: SKF New Zealand Ltd
Address: Unit 3, 24 Bishop Dunn Place, Flat Bush
Zip code: 2013
City: Auckland
Country: NEW ZEALAND
Phone: 0800 705 705
Fax: +64 9 273 8513

1.4. Emergency Telephone Number

New Zealand National Poisons Centre / New Zealand Emergency Services: 0800 764 766 / 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: May cause slight irritation to the skin and eyes.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Substance | CAS No | Concentration | Notes |
|---|----------|---------------|-------|
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine | 110-25-8 | 0.1 - 1% | |

Ingredient comments: The mineral oils in the product contain <3% DMSO extract(IP 346).

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------|--|
| Inhalation: | Seek fresh air. Seek medical advice in case of persistent discomfort. |
| Ingestion: | Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort. |
| Skin contact: | Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort. |
| Eye contact: | Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist. |
| General: | Bring the safety data sheet or label when seeking medical advice. |

4.2. Most important symptoms and effects, both acute and delayed

May cause slight irritation to the skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

| | |
|--|--|
| Suitable extinguishing media: | Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock. |
| Unsuitable extinguishing media: | Do not use a jet of water, as it may spread the fire. |

5.2. Special hazards arising from the substance or mixture

Not flammable, but combustible. Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Provide good ventilation. Wear gloves. Wear safety goggles if there is a risk of eye splash.

For emergency responders: In addition to the above: Normal protective clothing is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spills using sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product should be used under well-ventilated conditions and preferably under process ventilation. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Do not store with the following: Strong oxidisers/ Strong alkalis/ Strong acids. Store in a dry, cool, well-ventilated area. Do not expose to heat (e.g. sunlight).

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

| Substance name | Time period | ppm | mg/m3 | fiber/cm3 | Remarks | Comments |
|-------------------|-------------|-----|-------|-----------|---------|----------|
| Oil mist, mineral | - | | 5 | | TWA | |
| Oil mist, mineral | - | | 10 | | STEL | |

Measuring methods: Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: Workplace exposure standards and biological exposure indices. (November 2018)

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash.

Personal protective equipment, skin protection: Not required.

Personal protective equipment, hand protection: In the event of direct skin contact, wear protective gloves: Type of material: Nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

| Parameter | Value/unit |
|----------------------|---|
| Physical state | Liquid |
| Colour | Colourless |
| Odour | Characteristic |
| Solubility | Poorly soluble in the following: Water. |
| Explosive properties | No data |
| Oxidising properties | No data |

| Parameter | Value/unit | Remarks |
|--|------------------------|------------|
| pH (solution for use) | No data | |
| pH (concentrate) | No data | |
| Melting point | No data | |
| Freezing point | No data | |
| Boiling point or initial boiling point and boiling range | > 280 °C | |
| Flash Point | > 220 °C | (open cup) |
| Evaporation rate | No data | |
| Flammability | No data | |
| Lower and upper flammability limit | No data | |
| Lower and upper explosion limit | No data | |
| Vapour pressure | No data | |
| Relative vapour density | No data | |
| Relative density | 0.84 g/cm ³ | (15 °C) |
| Partition coefficient n-octanol/water (log value) | No data | |
| Auto-ignition temperature | No data | |
| Decomposition temperature | No data | |
| Viscosity | No data | |
| Odour threshold | No data | |

9.2 Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers/ Strong alkalis/ Strong acids.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Strong oxidisers/ Strong alkalis/ Strong acids.

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, cas-no 110-25-8

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|-----------|------------|-------------|--------|
| Rat | LD50 | | 9200mg/kg | | | |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. Ingestion of large quantities may cause discomfort.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, cas-no 110-25-8

| Organism | Test Type | Exposure time | Value | Conclusion | Test method | Source |
|----------|-----------|---------------|----------|------------|-------------|--------|
| Rat | LC50 | 4h | 1.37mg/l | | | |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: The product does not have to be classified. Test data are not available. Can be irritating after prolonged skin contact.

Serious eye damage/eye irritation: The product does not have to be classified. Test data are not available. Temporary irritation.

Respiratory sensitisation or skin sensitisation: The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product does not have to be classified. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine, cas-no 110-25-8

| Organism | Species | Exposure time | Test Type | Value | Conclusion | Test method | Source |
|----------|---------|---------------|-----------|-------|------------|-------------|--------|
| | | | | | | | |

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

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Version: 2.0.0

| | | | | | | | |
|-----------|-------------------------------|------|---------|---------------|--|--|--|
| Fish | Name of species not specified | | 96hLC50 | 3.2 - 4.6mg/l | | | |
| Crustacea | Daphnia sp. | | | 0.53mg/l | | | |
| Algae | Name of species not specified | 72 h | 72hEC50 | 5.1mg/l | | | |

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. The product contains small quantities of environmentally hazardous substances.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

German water pollution classification (WGK): 1

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

14.1. UN-No.: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not included.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety Data Sheet

LFFH 68

Replaces date: 3/12/2018

Revision date: 4/25/2019

Version: 2.0.0

Special Provisions: Not considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

| Version | Revision date | Responsible | Changes |
|---------|---------------|--------------------------|---------|
| 2.0.0 | 4/25/2019 | Bureau Veritas HSE - DOL | 1-16 |

Abbreviations:
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very Persistent and Very Bioaccumulative
 STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with GHS Rev. 7 (2017).

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

Document language: UN