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1. IDENTIFICATION OF SUBSTANCE AND COMPANY

TRADE NAME LHFP 150/0.4
APPLICATION SKF chain oil
Producer/importer SKF Maintenance Products
Address Postbus 1008
Postal code NL-3430 BA Nieuwegein
Country The Netherlands
Telephone +31 30 6307200
Fax +31 30 6307205
Contact pers. Ebbe Malmstedt, ebbe.malmstedt@skf.com

2. COMPOSITION/INFORMATION ON INGREDIENTS **Chemical characterization**· **Description:** Active substance with propellant· **Dangerous components:**

butane	CAS: 106-97-8 EINECS: 203-448-7	F+; R 12	10-25%
propane	CAS: 74-98-6 EINECS: 200-827-9	F+; R 12	10-25%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.**3. HAZARDS IDENTIFICATION** · **Hazard description:**

F+ Extremely flammable

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

Contains N-alkylated benzotriazole. May produce an allergic reaction.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4. FIRST AID MEASURES

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

5. FIRE-FIGHTING MEASURES · **Suitable extinguishing agents:**

Water haze
Fire-extinguishing powder
Carbon dioxide
Alcohol resistant foam

· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **Protective equipment:** Mount respiratory protective device.**6. ACCIDENTAL RELEASE MEASURES**

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.

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7. HANDLING AND STORAGE **Handling:****· Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Storage:**· Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility:

Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

· Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:**106-97-8 butane**

OES Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm

74-98-6 propane

OES Long-term value: 1800 mg/m³, 1000 ppm
Asphyxiant

· Additional information: The lists valid during the making were used as basis.

· Personal protective equipment:**· General protective and hygienic measures:**

Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

· Body protection:

Use protective suit.

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9. PHYSICAL AND CHEMICAL PROPERTIES

· General Information

Form: Aerosol
Colour: According to product specification
Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: -44°C

· **Flash point:** -97°C· **Ignition temperature:** 365.0°C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.· **Explosion limits:**

Lower: 1.5 Vol %
Upper: 10.9 Vol %

· **Vapour pressure at 20°C:** 8300.0 hPa· **Density at 20°C:** 0.70 g/cm³· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.· **Solvent content:**

Organic solvents: 40.0 %

10. STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

- **Additional toxicological information:** Prolonged skin contact may cause skin irritation and/or dermatitis.

12. ECOLOGICAL INFORMATION **Ecotoxicological effects:**

Behaviour in sewage processing plants: The product can be mechanically separated.

General notes: Do not allow product to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS **Product:**

- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** 2.5F Gases.
- **Danger code (Kemler):** 23
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label** 2.1
- **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**

- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1

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- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label 2.1**
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

15. REGULATORY INFORMATION

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



F+ Extremely flammable

· Risk phrases:

12 Extremely flammable.

· Safety phrases:

2 Keep out of the reach of children.

23 Do not breathe fumes/aerosol.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

· Special labelling of certain preparations:

Contains N-alkylated benzotriazole. May produce an allergic reaction.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	25-50

· **VOC-CH** 40.00 %

· **VOC-EU** 279.2 g/l

· **Danish MAL Code** 4-1

16. OTHER INFORMATION

VENDOR NOTES

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Relevant R-phrases

12 Extremely flammable.

TRAINING ADVICE

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.