

Last changed: 2003-03-21

1. IDENTIFICATION OF SUBSTANCE AND COMPANY 

**TRADE NAME** LHRP 1  
**APPLICATION** SKF anti corrosive agent

**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

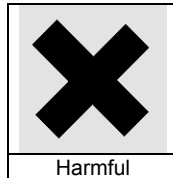
2. COMPOSITION/INFORMATION ON INGREDIENTS 

No	Ingredient name	EC No.	CAS No.	Conc. (wt%)	Classification
1	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	265-150-3	64742-48-9	30-60	T;Kref2;45-65
2	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha	265-185-4	64742-82-1	10-30	T;Kref2;45-65
3	Barium salts			1-5	Xn,20/22
4	Baseoil - unspecified			10-30	
Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment					

## INGREDIENT COMMENTS

## COMMENTS ON COMPOSITION

Baseoil - unspecified: DMSO-content < 3% DMSO-Content < 3%  
Benzene<0,1%

3. HAZARDS IDENTIFICATION 

## HEALTH

Harmful by inhalation and if swallowed. Risk of aspiration with chemical pneumonia. At high concentrations, may irritate the respiratory organs and affect the central nervous system.

## FIRE AND EXPLOSION

Flammable. The product is ignitable. In use, may form flammable/explosive vapour-air mixture. Heating may cause explosion.

## ENVIRONMENT

The product contains substances that are considered to be harmful to the environment.

4. FIRST AID MEASURES 

## INHALATION

Move the exposed person to fresh air at once. The affected person must be kept completely quiet and under close surveillance. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. In the event of irritation in the respiratory tract, breathing difficulties, headache, tiredness, nausea or unconsciousness, seek immediate medical attention. Show this product information leaflet, if possible.

## SKIN CONTACT

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

## EYE CONTACT

Rinse immediately with plenty of water. Remove contact lenses. Contact physician if irritation persists. Show this product information leaflet, if possible.

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**INGESTION**

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Give if possible cream or a few couple of glasses milk or water, provided the victim is fully conscious. To hospital if strong cough or vomiting occurs, or if larger quantity has been consumed.

**5. FIRE-FIGHTING MEASURES** **EXTINGUISHING MEDIA**

Can be extinguished with water, powder, foam, sand or carbon dioxide.

**IMPROPER EXTINGUISHING MEDIA**

Do not use a direct water jet that could spread the fire.

**FIRE AND EXPLOSION HAZARDS**

Flammable. Fire causes formation of toxic gases.

**PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS**

Put on protective equipment prior to entering danger zone. Use a fresh air breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES** **PERSONAL PRECAUTIONS**

No smoking, fires, welding or sparks. Avoid contact with the skin, eyes and respiratory tract.

**ENVIRONMENTAL PRECAUTIONS**

Prevent discharge into the sewage system or the immediate environment.

**METHODS FOR CLEANING UP**

Collect with absorbent, non-combustible material into suitable containers. Be aware of risk of fire re-starting, and risk of explosion. Keep away from sources of ignition - No smoking.

**7. HANDLING AND STORAGE** **HANDLING ADVICE**

Avoid inhalation of vapours. Avoid contact with the skin and eyes. Wear appropriate clothing to prevent repeated or prolonged skin contact. No smoking, fires, welding or sparks.

**STORAGE**

Keep containers tightly closed. Keep in original container. Keep container in a well-ventilated place.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION** 

Ingredient name	Cas nr.	Interval	ppm	mg/m3	Year	Notes
Barium salts		8 h		0,5	2001	
Oil mist, mineral		8 h		5,0	2001	

**EXPOSURE CONTROL**

Avoid inhalation of vapours. Ensure good general ventilation. Provide sufficient ventilation during operations which cause vapour formation. Good personal hygiene is important. Wash promptly with soap & water if skin becomes contaminated.

**RESPIRATORY PROTECTION**

If ventilation is insufficient, use a respirator with A2/P2 filter. Respirator in dust-raising operations.

**EYE PROTECTION**

Use safety goggles and face shield in case of splash risk.

**HAND PROTECTION**

Use suitable protective gloves.

**PROTECTIVE CLOTHING**

Wear appropriate clothing to prevent any possibility of skin contact. Apron or other light protective clothing and boots.

**OTHER INFORMATION**

Wash at the end of each work shift and before eating, smoking and using the toilet. Isolate contaminated clothing and wash before reuse.

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**9. PHYSICAL AND CHEMICAL PROPERTIES** 

<b>Physical State:</b>	
<b>Colour:</b>	Brown.
<b>Odour:</b>	Characteristic
<b>Solubility:</b>	Insoluble in water
<b>Melting point/range:</b>	<b>Density:</b> 0,8
<b>Expl. limit LEL-UEL%:</b> 0,7 - 6,0	<b>Solubility in water:</b>
<b>Vapour pressure:</b>	<b>Saturation conc.:</b>
<b>Decomposition temp.:</b>	<b>Rel. dens. sat. air (air=1):</b>
<b>pH solution:</b>	<b>Boiling point/range:</b> > 100°C
<b>Flash point:</b> 48°C	<b>pH concentrate:</b>
<b>Molar weight:</b>	<b>Viscosity:</b> 40°C: < 7 mm <sup>2</sup> /s
<b>Ignition temp.:</b>	<b>Odour threshold value:</b>
<b>Rel.vap.dens.(air=1):</b>	<b>Rel. evap. velocity:</b>
<b>Air reactive:</b>	<b>Water reactive:</b>

**10. STABILITY AND REACTIVITY** **STABILITY**

Stable under normal temperature conditions.

**MATERIALS TO AVOID**

Avoid:Oxidizing substance.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Formation of toxic gases if heated.

**11. TOXICOLOGICAL INFORMATION** **INHALATION**

Harmful by inhalation. At high concentrations, may irritate the respiratory organs and affect the central nervous system. May have an intoxicating and soporific effect, and may cause dizziness, nausea, headache and vomiting. Risk of unconsciousness at very high concentrations.

**SKIN CONTACT**

May be irritating. Prolonged or repeated exposure to this chemical may cause:Reddening.

**EYE CONTACT**

May cause irritation, reddening and itching. May cause discomfort. Pain.

**INGESTION**

Harmful if swallowed. May be irritating. Risk of aspiration with chemical pneumonia. Is absorbed through the stomach and intestine. May have an intoxicating and soporific effect, and may cause dizziness, nausea, headache and vomiting.

**ACUTE AND CHRONIC TOXICITY**

May cause damage to the central nervous system. Protracted or repeated exposure may cause serious permanent damage.

**12. ECOLOGICAL INFORMATION** **ECOTOXICITY**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**OTHER EFFECTS**

Oil products may give rise to ground and water pollutants.

**13. DISPOSAL CONSIDERATIONS** **GENERAL REGULATIONS**

Confirm disposal procedures with environmental engineer and local regulations.

**CATEGORY OF WASTE**

EWC-Code: 13 06 01

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14. TRANSPORT INFORMATION Classified as Dangerous Goods:  Yes  No  N/A

UN No.: 1993

## PROPER SHIPPING NAME

Flammable liquid, n.o.s. (Turpentine substitute)

## ADR/RID

Class: 3  
Danger form: 31 c

Packing group:

Hazard Id:

## IMDG

Class: 3.3  
Sub Risk:  
Marine Pollutant: YesPacking group: II  
EMS: 3-07

## IATA

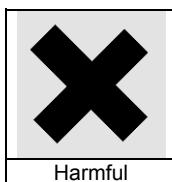
Class: 3  
Sub Risk:  
Label:

Packing group: III

## OTHER INFORMATION

15. REGULATORY INFORMATION 

Classif.:

EC-Label  Yes  No Xxxx15-5 N/A

## COMPOSITION

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha (30-60), Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha (10-30), Barium salts (1-5)

## R-PHRASES

R10 Flammable. R20/22 Harmful by inhalation and if swallowed. R65 Harmful: may cause lung damage if swallowed. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-PHRASES

S7/9 Keep container tightly closed and in a well-ventilated place. S16 Keep away from sources of ignition - No smoking. S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S36 Wear suitable protective clothing. S51 Use only in well-ventilated areas. S60 This material and its container must be disposed of as hazardous waste. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## REFERENCES

Directive 67/548/EEC, Directive 1999/45/EC, Directive 88/379/EEC, Directive 75/442/EEC, Directive 2001/59/EC (28 ATP), Directive 91/155/EEC.

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.



# SAFETY DATA SHEET

## MATERIAL SAFETY DATA SHEET

# LHRP 1

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### LIST OF RELEVANT R-PHRASES

Nr.	R-Phrase text
R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R45	May cause cancer.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

### TRAINING ADVICE

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