



SAFETY DATA SHEET

Material safety data sheet

LGRT 2

Last changed: 2006-09-04

1. IDENTIFICATION OF PRODUCT AND COMPANY

TRADE NAME LGRT 2
APPLICATION SKF Railway TBU grease.

Supplier SKF Maintenance Products
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Postal code NL-3430 BA Nieuwegein
Country The Netherlands
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2. COMPOSITION/INFORMATION ON INGREDIENTS

No	Ingredient name	EC No.	CAS No.	Conc. (wt %)	R-List	Classification
1	Baseoil-unspecified	-	-	60 - 100 %		No classification required
2	Zinc Naphtenate	234-409-2	12001-85-3	0,1 - 0,99 %		Xi,N,R36/38 - R51/53
3	Zinc oxide	215-222-5	1314-13-2	0,1 - 0,5 %		N,R50/53

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, Carc. =Carcinogenic, Mut.=Mutagenic, Repr.=Reproductive

INGREDIENT COMMENTS

The complete text of the R-phrases mentioned in section 2 is stated in section 16.

Note L:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

3. HAZARDS IDENTIFICATION

HEALTH

May be irritating to eyes.
Prolonged or frequently recurrent contact will decrease the skin and may cause skin irritation.

FIRE AND EXPLOSION

Not flammable, but combustible.

ENVIRONMENT

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

4. FIRST AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Seek medical advice if symptoms develop.

SKIN CONTACT

Immediately flush contaminated skin with soap or mild detergent and water. Immediately remove soaked clothing and flush the skin with water. Use appropriate hand lotion to prevent degreasing and cracking of skin. Seek medical advice if irritation persists.

EYE CONTACT

Immediately flush eyes with plenty of water while holding eye lids open. Remove any contact lenses and continue rinsing with water for at least 15 minutes (keep the eyelids open). Seek medical advice if irritation persists.

INGESTION

DO NOT INDUCE VOMITING! If vomiting occurs, keep head low so that stomach contents do not enter lungs. Thoroughly rinse the mouth with water. Drink a few glasses of water or milk. Seek medical advice.



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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguishing agent: carbon dioxide, powder, foam, water spray or water mist.

IMPROPER EXTINGUISHING MEDIA

Do not use a direct water stream which may spread the fire.

EXTINGUISHING METHODS

Use water to cool exposed containers. Remove containers from fire area if this can be done without risk. If possible, fight the fire from a protected location.

FIRE AND EXPLOSION HAZARDS

Not flammable, but combustible. Carbon monoxide and hydrocarbons are released in a fire situation.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Provide good ventilation.
Avoid contact with the skin, eyes and airways.
Wear necessary protective equipment. Keep the emission away from sources of ignition.

ENVIRONMENTAL PRECAUTIONS

Must not be released into the sewage system, drinking water supply or ground.

METHODS FOR CLEANING UP

Stop leak if this can be done without risk. Dry, scrape or absorb the product with inert material and place it in a refuse container. Collect and dispose of materials in closed and labelled containers at an approved disposal or waste collection facility. Clean with soap and water or detergent. Flush clean with plenty of water. Be aware of the risk of slippery surfaces.

OTHER INFORMATION

Inform the local authorities in case of large spills/leaks.

7. HANDLING AND STORAGE

HANDLING ADVICE

Provide good ventilation. Avoid contact with the skin and eyes. Wear necessary protective equipment. Keep away from sources of ignition.

STORAGE

Keep in a dry, cool and well-ventilated area. Avoid contact with oxidising substances. Keep in original container. Keep containers tightly closed.

Avoid storing at extreme temperatures. Store at temperatures below 50 °C. Store above freezing. Protect from direct sunlight. Keep away from sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE CONTROL

Provide good ventilation. Wash the skin at the end of each work shift and before eating, smoking and using restroom facilities. Eye wash facilities and safety shower must be available when handling this product.

RESPIRATORY PROTECTION

Respiratory protective equipment is usually not necessary. In case of insufficient ventilation, wear respiratory protective equipment with A/P2 filter.

EYE PROTECTION

Wear approved safety goggles if there is a risk of eye splash.

HAND PROTECTION

Protective gloves (nitrile rubber, PVC).



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PROTECTIVE CLOTHING

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Paste.
Colour Brown.
Odour Mineral oil.
Water solubility Insoluble in water.

Physical and chemical parameters

Parameter	Value / Unit	Method	Note
Flash point	> 150 °C	COC/mineral oil	
Auto-ignition temp.	> 320 °C		
Vapour pressure	> 0,005 hPa	20 °C	
Rel. vapour density	> 1	Air = 1	
Density	0,9 g/cm ³	15 °C	
Partition coefficient	> 6	n-octanol/water	

10. STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

Avoid heat, sparks and naked flames. Avoid storing at extreme temperatures. Protect from direct sunlight.

MATERIALS TO AVOID

Avoid contact with oxidising substances.

11. TOXICOLOGICAL INFORMATION

GENERAL

Used product may contain impurities hazardous to health.

INHALATION

On warming/heating, the vapours emitted may cause irritation to the respiratory organs.

SKIN CONTACT

Prolonged or frequently recurrent contact will degrease the skin and may cause skin irritation.

EYE CONTACT

May cause moderate irritation/smartering.

INGESTION

May cause irritation of the mucous membranes, nausea and vomiting.

12. ECOLOGICAL INFORMATION

AQUATIC ECOTOXICITY

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

MOBILITY

Insoluble in water. The product floats on water.

In the event of spillage on the ground, the product will be adsorbed to earth particles.

DEGRADABILITY

Not readily biodegradable. The product contains components that may be persistent in the environment.

ACCUMULATION

Contains component/components that can be bioaccumulated.



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OTHER EFFECTS

Oil products may cause ground and water pollutants.

CONCLUSION

Must not be released into the sewage system, drinking water supply or ground.

OTHER INFORMATION

German water pollution classification (WGK): 2

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Treat as hazardous waste. Collect and dispose of materials in closed and labelled containers at an approved disposal or waste collection facility. Empty packages must be handled in an environmentally safe manner in accordance with applicable laws and regulations.

CATEGORY OF WASTE

The EWC code is a suggestion only; the end user will select a suitable EWC code. 12 01 12* spent waxes and fats.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods:

Yes

No

N/A

OTHER INFORMATION

Not classified as dangerous goods.

15. REGULATORY INFORMATION

EC-Label

Yes

No

N/A

COMPOSITION

Baseoil-unspecified (60 - 100 %), Zinc Naphtenate (0,1 - 0,99 %), Zinc oxide (0,1 - 0,5 %)

R-PHRASES

No.	R-Phrase text
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-PHRASES

S24/25 Avoid contact with skin and eyes.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

REFERENCES

Directive 1999/45/EC.

Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances.

Directive 2001/58/EC (91/155/EEC).

European Waste Catalogue (EWC 2002).

Occupational exposure limits (EH40/2006)

Transport of dangerous goods: ADR, RID, IMDG and IATA.



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16. OTHER INFORMATION



LIST OF RELEVANT R-PHRASES

No.	R-Phrase text
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

ISSUED:

04/09/2006