

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 30411 LUNARIA FR 68

Date of the previous version: 2008-11-09 Revision Date: 2012-01-13 Version 1

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

LUNARIA FR 68

Number

1KZ

Pure substance/mixture

Mixture

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

Identified usesLubricant, refrigerating compressors.

1.3. Details of the supplier of the safety data sheet

Supplier

TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact

Contact Point

HSF

E-mail Address

rm.msds-lubs@total.com

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA Tél: 01.45.42.59.59

In France: - PARIS: Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel: 01.40.05.48.48. - MARSEILLE: Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel: 04.91.75.25.25. - LYON: Hopital Hédouard Herriot, 5 place d'Arsonvil, 69437 Lyon cedex 3, Tel: 04.72.11.69.11. - NANCY: Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel: 03.83.32.36.36 ou le SAMU: Tel (15)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

Classification

DIRECTIVE 67/548/EEC or 1999/45/EC



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For the full text of the R-phrases mentioned in this Section, see Section 16

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC **Symbol(s)**

Not Classified

2.2. Label elements

Labelled according to:

Not classified/No labelling required

R-phrase(s)

none

S-phrase(s)

none

2.3. Other hazards

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

Environmental properties

Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical Name	EC-No	REACH registration No:	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Alkaryl hydrocarbon polymer	-	no data available	^	10-20	R53	

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

For the full text of the R-phrases mentioned in this Section, see Section 16 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of first-aid measures

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General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Remove contaminated clothing and shoes. Wash off with soap and water. Wash

contaminated clothing before reuse.

Inhalation Move to fresh air

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician or Poison Control Center immediately.

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

Eye contact Not classified.

Skin contact Not classified.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may

be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advice for fire-fighters



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Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing

water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely

slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all

sources of ignition.

6.2. Environmental precautions

General InformationDo not allow material to contaminate ground water system. Try to prevent the material from

entering drains or water courses. Local authorities should be advised if significant spillages

cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for

disposal.

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail

Waste treatment See section 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in

well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes

and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks

and transfer/receiving equipment.



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Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

oil mist: 10mg/m³, for 15 minutes oil mist: 5mg/m³, for 8 hours

Legend

See section 16

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.



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Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 141). The use of breathing apparatus must comply strictly with the manufacturer's

instructions and the regulations governing their choices and uses.

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Hand Protection Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of

the EC approved gloves.

Environmental exposure controls

General Information The product should not be allowed to enter drains, water courses or the soil

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color yellow To amber

Physical State @20°C liquid

Odor Characteristic

Property
pHValues
Not applicableRemarks
Not applicableMethod

Boiling point/boiling range Not applicable

Flash point 175 °C ISO 2592

347 °F ISO 2592.

Evaporation rateNo information available

Flammability Limits in Air

No information available

Vapor PressureNo information availableVapor densityNo information available

Density 894 kg/m³ @ 15 °C ISO 3675

Water solubility Insoluble

Solubility in other solvents

No information available

logPow No information available



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Autoignition temperature

No information available

Viscosity, kinematic

68 mm2/s

@ 40 °C

ISO 3104

Explosive properties Oxidizing Properties

Not explosive Not applicable Not applicable

9.2. Other information

Possibility of hazardous reactions

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Hazardous Reactions

None under normal processing

10.4. Conditions to Avoid

Conditions to Avoid

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible Materials

Materials to Avoid

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes

and soot.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact

Not classified.



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Eye contact Not classified.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Acute toxicity Component Information

Sensitization

Sensitization Not classified as a sensitizer.

Specific effects

Carcinogenicity This product is not classified carcinogenic.

Mutagenicity This product is not classified as mutagenic.

Reproductive toxicityThis product does not contain any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity Product Information



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No experimental data available.

Acute aquatic toxicity Component Information

No information available.

Chronic aquatic toxicity Product Information

No information available.

Chronic aquatic toxicity Component Information

No information available.

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available

12.3. Bioaccumulative potential

Product Information

No information available

logPow

No information available

Component Information

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air

Loss by evaporation is limited.

Water

Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General Information

No information available.



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13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal

EWC Waste Disposal No.

The following Waste Codes are only suggestions:. 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was

used.

14. TRANSPORT INFORMATION

ADR/RID

Not regulated

IMDG/IMO

Not regulated

ICAO/IATA

Not regulated

ADN

Not regulated

15. REGULATORY INFORMATION

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

European Union

International Inventories

EINECS/ELINCS

-

TSCA DSL

-



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ENCS IECSC KECL PICCS AICS NZIOC -

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R53 - May cause long-term adverse effects in the aquatic environment

Abbreviations, acronyms

Legend Section 8

+ Sensitizer *

** Hazard Designation C:

Skin designation

C: Carcinogen

M: Mutagen R: Toxic to reproduction

Revision Date:

2012-01-13

Revision Note

*** Indicates updated section

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.



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End of the safety data sheet