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

1.1. Product identifier

Name of product CASSIDA GREASE RLS 1

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

Recommended intended purpose(s)
Lubricating grease

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor
FUCHS LUBRITECH GMBH
Werner-Heisenberg-Straße 1, D-67661 Kaiserslautern/Germany
Phone +49 (0) 6301 3206 - 0, Fax +49 (0) 6301 3206 - 940
E-Mail reach@fuchs-lubritech.de
Internet www.fuchs-lubritech.com

Advice
Product Safety Management
Phone +49 (0) 6301 3206 - 0
Fax +49 (0) 6301 3206 - 940
E-mail (competent person):
reach@fuchs-lubritech.de

US Distributor
Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 225-3924 (24 hrs Emergency

1.4. Emergency telephone number

Emergency advice
+49 (0)171 / 4632154
Phone 06301/3206-808
This number is only available at office times.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

Additional hints
The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional information

Remark
This mixture is not classified as hazardous according to Regulation (EC) 1272/2008

2.3. Other hazards

Information pertaining to special dangers for human and environment
none at appropriate handling and storage

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description
Thickening system and additives in synthetic oil

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
	203-749-3	Ölsäure-Derivat	<= 0,1	Xn;R20-38-41, N;R50/53
80939-62-4		Aminphosphat-Gemisch	0,1 < 1	Xi, N,R36/38-51/53

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
	203-749-3	Ölsäure-Derivat	<= 0,1	Eye Dam. 1, H318 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410 / Acute Tox.4, H332 / Skin Irrit.2, H315
80939-62-4		Aminphosphat-Gemisch	0,1 < 1	Aquatic Chronic 2, H411 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319

Additional advice
none at appropriate handling and storage

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately, don`t leave to dry.

In case of inhalation
Ensure of fresh air.
In the event of symptoms refer for medical treatment.
(may be relevant for vapours of superheated product)

In case of skin contact
In case of contact with skin wash off with soap and water.
Don't use organic solvents
Consult a doctor if skin irritation persists.

In case of eye contact
In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion
Do not induce vomiting.
Refer to medical treatment.

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

Physician's information / possible symptoms
No symptoms known so far.

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

Treatment (Advice to doctor)
Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Foam
Dry fire-extinguishing substance
Carbon dioxide
water mist

Unsuitable extinguishing media
Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
Use breathing apparatus with independent air supply.
Wear suitable personal protective equipment for fire extinguishing measures.

Additional information
Apply foam in large quantities because some of it is destroyed by the product.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Ensure adequate ventilation.
Avoid contact with skin and eyes
High risk of slipping due to leakage/spillage of product.

For emergency responders
no special dangers known

6.2. Environmental precautions
Collect contaminated water / firefighting water separately.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
Send in suitable containers for recovery or disposal.
Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).
Take up mechanically.

Additional Information
no special dangers known

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

! SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Avoid formation of oil dust.
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures
Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

Hygiene measures
Cloths contaminated with product should not be kept in trouser pockets.
Follow general rules of industrial hygiene for safe handling of chemical products
Remove soaked clothing immediately.
Wash skin thoroughly and immediately after handling the product.
Use barrier skin cream.

Advice on protection against fire and explosion
The product is combustible.
Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Prevent penetration into the ground.

Advice on storage compatibility
Do not store together with oxidising and self-inflammable materials.

Further information on storage conditions
Keep container tightly closed, store at cool and aired place, open and handle carefully.
Protect from heat and direct solar radiation.
Storage temperature may not exceed 40°C (=104°F).
Store in a dry place.
Do not keep at temperatures below 0°C.
Recommended storage temperature: room temperature.

Information on storage stability
See technical information about storage of lubricants

Storage group 11

Fire class B

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice
As basis for this information served the valid references.

8.2. Exposure controls

Respiratory protection
Not required at determined application

Hand protection
As the product is a preparation of several substances, the actual resistance of the materials used for gloves cannot be scientifically calculated; it is therefore mandatory to check this before using the product.
The break through time depends on the mechanical stress imposed and must therefore be checked individually.
PVC gloves
nitrile gloves
Neoprene gloves

Eye protection
tightly fitting goggles, in case of splashing

Other protection measures
Usual working clothes for chemical industries

Appropriate engineering controls
Care for good room ventilation, exhaust system at workshop place if necessary

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
pasty	white	odourless

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value					not applicable
boiling range	> 280 °C				
drop point	> 240 °C				
Flash point	> 200 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	> 320 °C				
Self ignition temperature	not determined				
Lower explosion limit	1 Vol-%				information refer to base oil
Upper explosion limit	10 Vol-%				information refer to base oil
Vapour pressure	< 0,5 Pa	20 °C			
Relative density	ca. 0,87 - 0,88 g/cm3	25 °C			
Vapour density	not determined				
Solubility in water					more or less insoluble
Solubility/other	not determined				

	Value	Temperature	at	Method	Remark
Partition coefficient n-octanol/water (log P O/W)	> 6				
Decomposition temperature	not determined				
Viscosity consistency					NLGI 1
Viscosity kinematic	135 - 165 mm2/s	40 °C			refers to base oil

Oxidising properties
no

Explosive properties
No information available.

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
No information available.

10.3. Possibility of hazardous reactions
No information available.

10.4. Conditions to avoid
Heating, unshielded flame, ignition source, electrostatic charge

10.5. Incompatible materials
Materials to avoid
Reactions with oxidising agents.

10.6. Hazardous decomposition products
none at appropriate handling and storage

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral				not determined
Irritability skin				frequent and/or persistent contact may cause skin irritation
Irritability eye	may have irritating effect			if splash reaches eye
Skin sensitization	No sensitizing effect known			

Experiences made from practice
Has a degreasing effect on the skin.
no harmful effects at appropriate handling and determined usage

Additional information
No toxical dates available.
The product was classified on the basis of the calculation procedure of the directive 67/548/EEC (conventional method).

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish				not determined

12.2. Persistence and degradability

Biological degradability	not determined

12.3. Bioaccumulative potential

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.
preparation is water insoluble and does not formate emulsion

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

Behaviour in sewage plant
The viscous consistency of the product can cause trouble in transport lines and purification plants.

General regulation
Ecological dates are not available.
Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product
Waste disposal in accordance with the relevant regulations.

Recommendations for packaging
Totally emptied packaging may be taken for recycling.
Dispose one-trip container according to local authority prescriptions
EAK 15 01 10: packing material with harmful contamination

General information
Ultimately responsible for correct classification is the waste producer, as the EWC names different codes for different origins of same waste

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user

unknown

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID
No dangerous goods as defined by these transport regulations.

Marine transport IMDG
No dangerous goods as defined by these transport regulations.

Air transport ICAO/IATA-DGR
No dangerous goods as defined by these transport regulations.

Transport/further information
No hazardous goods as defined by prescriptions

SECTION 15: Regulatory information

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

VOC standard

VOC content	0 %	
National regulations		
Water hazard class	1	Mixture-WGK according to VwVwS (GER)

15.2. Chemical Safety Assessment
No information available.

SECTION 16: Other information

Training advice
Use information in this MSDS

Recommended uses and restrictions
usage only according to instructions for use and observance of warning notes
National and local regulations concerning chemicals shall be observed.

Further information
The information given in this MSDS is based on the present state of knowledge and is intended to describe our products from the point of view of safety requirements only.
Substantial changes to the former version are marked by "!" on the left margin of the paper.
All the raw materials in this product are listed in TSCA.
All the raw materials in this product are listed in DSL.
Refer to product information paper.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.1

Sources of key data used
Material Safety Data Sheets of raw materials

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 20 Harmful by inhalation.
R 36/38 Irritating to eyes and skin.
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.