

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

1.1 Product identifier

Trade name: **SYN-setral-LI/C 400 PD**

Article number: 033090

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

No further relevant information available.

Application of the substance / the mixture Grease

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SETRAL Chemie GmbH
Salzsteinstrasse 4
D-82402 SEESHAUPT
Tel: 08801/97-10
Fax: 08801/97-30

Further information obtainable from:

R&D
Ms. KLING Rachel
Tel. +33(0)388591154
Tel. +33(0)388506841
Mail: rachel.kling@setral.net

1.4 Emergency telephone number:

In case of emergency immediately call the poison control centre.

+49 (0)228 /19240 (Informationszentrale gegen Vergiftungen GIZ Bonn, 24-Std.- Notruf)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Fully synthetic grease

Dangerous components:

CAS: 85736-59-0	Naphthenic acids, bismuth salts	0,5-2,5%
	Aquatic Chronic 3, H412	

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CAS: 4259-15-8 EINECS: 224-235-5 Reg.nr.: 01-2119493635-27-0000	Zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate) Eye Dam. 1, H318; Aquatic Chronic 2, H411	0,5-2,5%
CAS: 93820-57-6 EINECS: 263-093-9	Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts Skin Irrit. 2, H315; Aquatic Chronic 3, H412	0,5-2,5%
CAS: 597-82-0 EINECS: 209-909-9	Triphenyl phosphorothionate Aquatic Chronic 4, H413	0,5-2,5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.

After inhalation: Not applicable, because solids and paste is free of solvents.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture Do not breathe gases and smokes from fire

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear and gloves protectives clothing.

6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special measures required.

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

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

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8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:****Molybdenum 2-ethylhexyl-dithiophosphate in solution in mineral oil. (0,5-2,5%)**

TLV (European Union)	Short-term value: 10 mg/m ³
	Long-term value: 5 mg/m ³

8012-95-1 Paraffin oils (0,5-2,5%)

TLV (European Union)	Short-term value: 5 mg/m ³
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· **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Respiratory protection:

Filter P3

Not required.

Protection of hands:

Protective gloves

Material of gloves

Nitrile rubber, NBR

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 can not 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:

Safety glasses

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Paste
Colour:	Red
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not applicable.
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Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point:	>200 °C
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Flammability (solid, gaseous):	Not determined.
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Decomposition temperature:	Not determined.
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Self-igniting:	Not determined.
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Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

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· Vapour pressure:	Not applicable.
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· Density at 20 °C:	0,88 g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.

· Solubility in / Miscibility with water:	Soluble in hydrocarbons. Insoluble.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

· 9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** Strong oxyding agents

· **10.6 Hazardous decomposition products:** Hydrocarbons, CO, CO2

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

· **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:**Hydrogenated polydecene**

Oral	LD50	>2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
Inhalative	CL50	>5000 mg/m ³ (Rat)

9010-79-1 Ethylene - propylene copolymer

Oral	LD50	>5000 mg/kg (Rat)
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85736-59-0 Naphthenic acids, bismuth salts

Oral	LD50	>5000 mg/kg (Rat)
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Molybdenum 2-ethylhexyl-dithiophosphate in solution in mineral oil.

Oral	LD50	~7350 mg/kg (Rat)
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4259-15-8 Zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)

Oral	LD50	3100 mg/kg (Rat) (OECD 401)
	NOAEL	30 mg/kg (Rat) (OCDE 421)
Dermal	LD50	>5000 mg/kg (Rabbit) (OECD 402)

93820-57-6 Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts

Oral	LD50	>2000 mg/kg (Rat)
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597-82-0 Triphenyl phosphorothionate

Oral	LD50	>2000 mg/kg (Rat)
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68411-46-1 Product of the reaction of the n-phenyl-benzenamine and the 2,4,4-trimethylpentene

Oral	LD50	>5000 mg/kg (Rat) (OCDE 401)
Dermal	LD50	>2000 mg/kg (Rat) (OCDE 402)

Primary irritant effect:

· **Skin corrosion/irritation** No irritant effects known

Serious eye damage/irritation

Causes serious eye irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Other information (about experimental toxicology):** Repetitive or extended contacts could cause skin irritations.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:**

85736-59-0 Naphthenic acids, bismuth salts

CE50 >100 mg/l (Daphnia)

4259-15-8 Zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)

CL50-96H 1-10 mg/l (Fish)

CE50 >240 mg/l (Algae)

380 mg/l (Bacteria)

1-10 mg/l (Daphnia) (OCDE 202)

Biodegradability 5 % (Biodegradability) (OCDE 301D)

93820-57-6 Benzenesulfonic acid, di-C10-18-alkyl derivs., calcium salts

CL50 10-100 mg/l (Fish)

CE50 >1000 mg/l (Bacteria)

10-100 mg/l (Daphnia)

Biodegradability 60 % (Persistence and degradability)

597-82-0 Triphenyl phosphorothionate

CL50-96H >100 mg/l (Fish) (OCDE 203)

CE50 >100 mg/l (Bacteria) (OCDE 209)

68411-46-1 Product of the reaction of the n-phenyl-benzenamine and the 2,4,4-trimethylpentene

CL50-96H >100 mg/l (Fish) (OCDE 203)

CE50 >100 mg/l (Algae) (OCDE 201)

>100 mg/l (Bacteria) (OCDE 209)

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

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

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 Waste treatment methods**· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.· **European waste catalogue**

12 01 12* spent waxes and fats

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information· **14.1 UN-Number**· **ADR, ADN, IMDG, IATA** Void· **14.2 UN proper shipping name**· **ADR, ADN, IMDG, IATA** Void· **14.3 Transport hazard class(es)**· **ADR, ADN, IMDG, IATA**· **Class** Void· **14.4 Packing group**· **ADR, IMDG, IATA** Void· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user** Not applicable.· **14.7 Transport in bulk according to Annex II of****Marpol and the IBC Code** Not applicable.· **UN "Model Regulation":** Void**SECTION 15: Regulatory information**· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 28· **National regulations:**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· **Department issuing SDS:** see item 1· **Abbreviations and acronyms:**

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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