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Commercial Name: **Silber K7132 lv, lv red, mv, hv**
Article No.: TS1110, TS1111, TS1120, TS1130

- 1.1 Commercial Name: Silber K 7132
- 1.2 Usage: Industrial Use.
- 1.2 Company: Dr. Tillwich GmbH Phone: +49-7451-5386-0
Werner Stehr Fax: +49-7451-5386-70
Murber Steige 26 E-Mail: info@tillwich-stehr.com
D-72160 Horb
Germany
- 1.3 Emergency Call: +49-7451-5386-20 8.00 am until 5.00 pm UTC + 1h
+49-7451-3766 5.00 pm until 8.00 am UTC + 1h

2. Possibilities of Risk

- 2.1 Physical and chemical dangers: Not classified as a dangerous product.
- 2.2 Health dangers: Not classified as a dangerous product.
- 2.3 Dangers for the environment: Not classified as a dangerous product.

3. Composition / Components3.1 Substance: Preparation:

3.2 Chemical Characterization:

Components	Percentage	CAS-Nr.	Einecs	R-sentences	Symbols
Fluorinated Polysiloxane-Ester-Oils	< 99 %	-	-	-	-
Friction Modifier	1 %	Trade Secret	-	-	-
Different Additives	0,1 – 1 %	-	-	-	-
Coloring materials	< 0,1	-	-	-	-

Classification according to the material guideline RL 67/548/EG, preparing guideline RL 1999/45/EG, and national german right ChemG, GefstoffV., TRGS, latest version.

4. Precautions for First Aid

- 4.1 Contact with Skin: Remove soiled clothes. After contact with skin, wash immediately with plenty of water and soap.
- 4.2 Contact with Eyes: In case of contact with eyes, rinse immediately with plenty of water. If irritations occur seek medical advice.
- 4.3 Inhalation: Not applicable.
Ingestion: If swallowed, do not induce vomiting, keep free the respiratory system, seek medical advice.
- 4.5 Other Information:

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5. Fire Fighting Procedures

- 5.1 Suitable Extinguisher: CO₂ – foam or powder, water spray, alcohol resistant foam.
- 5.2 Unsuitable Extinguisher: Jet of water.
- 5.3 Special Dangers:
Do not empty contaminated water into drains, ground, lakes or rivers.
Remove contaminated water and soil according to local regulations.
- 5.4 Special Protection Equipment:
Wear respiratory equipment and full encapsulated suit.

6. Precautions for Uncontrolled Release

- 6.1 Personal Precautions:
Avoid contact with eyes and skin.
- 6.2 Environmental Protection:
Do not empty the product into drains, ground or water.
- 6.3 Spill Response:
Cover with inorganic absorbent material. The material must be disposed of as hazardous waste.
- 6.4 Other Information:

7. Handling and Storage

- 7.1 Handling Information:
Keep container tightly closed when not in use. When using this product do not smoke.
- 7.2 Storage Information:
Keep only in the original container and at room temperature. Keep away from heat and hot surfaces.
- 7.3 Demands upon Storage Place:
Store above collecting dishes.
- 7.4 Storage with other Materials:
Avoid contact with oxidizing agent. Keep away from inflammable materials and fluids.
- 7.5 Other Information:

8. Precautionary Information

- 8.1 Limiting Values:
- | | |
|---|----------------|
| 8.2.1 AGW (threshold limit value): | not determined |
| 8.2.2 BGW (biological threshold limit value): | not determined |
- 8.2 Technical Precautions for the avoidance of the exposition on the job:
No special precautions necessary.
- 8.3 Delimitation and monitoring of the exposition:
- | | |
|--------------------------|--|
| 8.3.1 Breath Protection: | Not necessary at room temperature. |
| 8.3.2 Skin Protection: | After work wash hands with water and soap
Preventive skin protection required - Use protective hand lotion or wear suitable gloves from oil resistant material.
Avoid longer and intensive skin contact. |

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Suitable gloves:

Material: Nitrile rubber
Category: III
Thickness: 0,4 mm
Permeation time: Level 6 (> 480 min.)

The data were determined on laboratory conditions. The conditions in practical application can deviate from these, the data can be only a guideline assistance with the selection of the suitable gloves. Contaminated gloves should be changed as fast as possible.

8.3.3 Eye Protection: Wear eye / face protection, if product may be splashed.

8.3.4 Body Protection: Wear suitable protective clothing.

8.4 Other Information: Protective measures for chemicals must be noted.

9. Physical and Chemical Data

9.1 Condition: liquid Colour: different Odour: odourless

9.2 Change of Condition:

9.2.1 Boiling Point: no data available

9.2.2 Pourpoint ISO 3016

K 7132 lv, lv red	- 50° C (- 58° F)
K 7132 mv	- 45° C (- 49° F)
K 7132 hv	- 35° C (- 31° F)

9.3 Flash Point: > 150° C (> 302° F) ISO 2592

9.4 Ignition Point: > 300° C (> 572° F) DIN 51794

9.5 Explosion Limits:
lower: not applicable upper: not applicable

9.6 Vapour Pressure at 20°C (68° F): not applicable

9.7 Density at 20°C (68° F): 1,25 g/cm³ DIN 517579.8 Solubility in H₂O at 20°C (68° F): < 0,1 g/l

9.9 pH value: not applicable

9.10 Viscosity at 20°C (68° F): DIN 51562

K 7132 lv, lv red	330 mm ² /s
K 7132 mv	480 mm ² /s
K 7132 hv	1000 mm ² /s

9.11 Other Information: -

10. Stability and Reactivity Data

10.1 Thermal Decomposition:

If the product is stored according to this instructions, no dangerous reactions are to be expected. Above 300° C (572° F) decomposition products may be set free.

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- 10.2 Conditions to Avoid:
Keep away from heat and sources of ignition.
- 10.3 Materials to Avoid:
Reactions with oxidizing agent are possible.
- 10.4 Hazardous Decomposition Products:
Thermal decomposition starting from 300° C (> 572° F), trifluoropropionaldehyde (highly toxically) may be created. Carbon dioxide, Carbon monoxide.
Above 150° C (302° F) small amounts of products like formaldehyde may be created.
- 10.5 Dangerous Reactions:
If the product is stored according to this instructions, no dangerous reactions are to be expected.
- 10.6 Other Information:

11. Toxicological Data

Effects after eye contact:	
Base Oil:	No irritation, rabbit (Test Report).
Friction Modifier:	Irritation.
Additives:	Weakly eye-provoking.
Effects after skin contact:	
Base Oil:	No irritation, rabbit (Test Report).
Friction Modifier:	No irritation known.
Additives:	Weakly provoking.
Effects after inhalation:	
Not applicable.	
Effects when swallowing:	
No data available.	
Acute Oral Toxicity (Base oil):	LD50 > 2000 mg/kg, rat (Test Report).
Acute Oral Toxicity (Friction Modifier):	LD50 > 12800 mg/kg, rat.
Acute Oral Toxicity (Additives):	LD50 > 2000 mg/kg, rat.
Acute Dermal Toxicity:	No data available.
Acute Inhalational Toxicity:	Not applicable.
Sensitization:	
Base Oil:	Not sensitizing.
Friction Modifier:	Not sensitizing.
Additives:	Not sensitizing.
Embryo Toxicity:	No data available.
Mutagenic:	No data available.
Carcinogenic:	No data available.

12. Environmental Information

- 12.1 Ecological toxicity:
- | | |
|----------------------|---|
| Acute Fish Toxicity: | |
| Base Oil: | LC50 > 100 mg/l (Danio rerio, 96 h, Test Report). |
| Friction Modifier: | No data available. |
| Additives: | No data available. |

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Acute Daphnia Toxicity: No data available.
Alga Toxicity: No data available.
Bacteria Toxicity:
Base Oil: EC50 > 1000 mg/l (Sewage sludge, 3 h, Test Report).
Friction Modifier: No data available.
Additives: No data available.

12.2 Mobility:

Mobility in Ground and Water:
Insolubly in water. On water surface thin oil-layer will be formed. Adsorption to Suspension particle.
Separation by sedimentation.

Environmental Distribution Data:
No data available.

12.3 Persistence and Degradableness

Biologically not degradable. Elimination by adsorption at activated sludge.
After present experience no unfavorable effects in purification plants are to be expected.

12.4 Biodegradability:

Bioaccumulation unlikely.

12.5 Other harmful effects:

-

12.6 Additional ecological references:

In the case of appropriate handling and use no environmental problems are to be expected.

13. Waste Disposal Information

The allocation of the waste keys is to be accomplished branch and process specifically by the waste producer separately. The indicated waste keys are only recommendations for the disposal of the unmachined product.

13.1 Product:

EWC - Code: (European waste category list): 13 02 06*.
Synthetic machines -, transmission and lubricating oils

13.2 Package:

EWC - Code: (European waste category list): 15 01 10*.
Contaminated package

13.4 Other Information:

-

14. Transport Information

14.1 General Information:

U.N. No.:
Packing group:

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- 14.2 Regulations for Transport by Truck or Train: ADR / GGVSE
Classification: not classified
- 14.3 International Regulations for Transport by Ship: IMDG / IMO
Classification: not classified
- 14.4 National Regulations for Transport by Ship: GGVSee
Classification: not classified
- 14.5 International Regulations for Transport by Plane: ICAO und IATA-DGR
Classification: not classified
- 14.6 Other Information:
This product is not a dangerous good.

15. Regulations

15.1 Identification:

Characteristic: The product is classified and characterized according to European Union Guidelines.

Symbols: None.

R-sentences: -

S-sentences: -

15.2 National German Regulations:

Regulations for inflammable products (TRBF):
Not applicable.

Regulations for hazardous products: (TRGS):
-

Technical instructions on air quality control (TA-Luft):
-

Water Endangerment Class:
WGK 1, water-endangering (self classification)

Special Information:
-

16. Additional Information

The information on this Data Sheet represents our best knowledge. This information is for security reasons only and does not contain any characteristic properties guaranteed for a special application. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other products or processes is the responsibility of the user.