

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 1 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

1. Substance / Preparation and Company Name

- 1.1 Commercial Name: Type 1 - 3
- 1.2 Identified uses: Industrial Use / Lubricant.
- 1.2.1 Uses advised against:
- 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: +49-7451-5386-0 8.00 am until 5.00 pm UTC + 1h
+49-171-5477230 5.00 pm until 8.00 am UTC + 1h

2. Hazards Identification

- 2.1 Classification of the substance or mixture:

Hazard Statements:

None

Precautionary Statements:

None

- 2.1 Label Elements:

Hazard Pictograms

None.

Signal Word: No signal word.

The product is not a hazardous substance / mixture and therefore exempt from labeling.

The classification and identification referred to guideline (EG) Nr.1272/2008 with amendments and additions.

The product is classified and labeled according to GHS.

3. Composition / Components

- 3.1 Substance: Mixture:

- 3.2 Chemical Characterization:

Components / REACH - Identifiers	Percentage	CAS-Nr.	Einecs	Hazard Statements	Hazard Pictograms
Hydrocarbons				none	none
Synthetic Esters				none	none

Document No. S0573
Preparation date: 12/2015Edition: 1
Page: 2 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.**Silber B**
TK2300

Components / REACH - Identifiers	Percentage	CAS-Nr.	Einecs	Hazard Statements	Hazard Pictograms
Different Additives				none	none

Classification according to EU guidelines and national guidelines, latest version.

4. Precautions for First Aid

- 4.1 Contact with Skin: Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. After work wash hands with water and soap.
- 4.2 Contact with Eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Immediately call a physician.
- 4.3 Inhalation: After inhalation of decomposition products in case of accidental - fresh air. Consult a doctor.
- 4.4 Ingestion: If swallowed, do not induce vomiting: seek medical advice.
- 4.5 Other Information: -

5. Fire Fighting Procedures

- 5.1 Suitable Extinguisher: CO₂ – foam or powder, water spray, alcohol resitant foam. Cool containers with water in case of fire.
- 5.2 Unsuitable Extinguisher: Jet of water.
- 5.3 Special Hazards / Endangering:
In the thermal decomposition toxic gases may be create.
Carbon oxides.
Exposure to decomposition products may cause a health hazard.
Do not empty contaminated water into drains, ground and lakes or rivers.
- 5.4 Special Protection Equipment:
Wear self-contained breathing apparatus and tightly closing protective suit.

6. Precautions for Uncontrolled Release

- 6.1 Personal Precautions:
Avoid contact with eyes, skin and clothing.
- 6.2 Environmental Protection:
Do not empty the product into drains, ground and waters.
- 6.3 Spill Response:
Cover with inorganic absorbent material. The material must be disposed of as hazardous waste.
Clean contaminated objects and the floor thoroughly, observing environmental regulations.
- 6.4 Other Information:
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Document No. S0573
 Preparation date: 12/2015

Edition: 1
 Page: 3 of 10

Print date: 2015-12-17

Commercial Name:
 Art. No.

Silber B
 TK2300

7. Handling and Storage

- 7.1 Handling:
 When using this product do not eat, drink or smoke. Keep away from food and drink. Keep container tightly closed when not in use.
- 7.2 Storage:
 Keep only in the original container and protected from light and heat. Storing large quantities over type-approved drip pans with sufficient volume. Avoid contact with oxidizing agent. Keep away from inflammable materials and fluids.
- 7.3 Determined Use:
 No special references.

8. Precautionary Information

8.1 Control parameters

Occupational exposure limits.

AWG Threshold limit value (Germany) IOELV (European Union)	No data available.
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BWG Biological threshold limit value (Germany)	No data available.
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DNEL Derived-No-Effect-Level / Derived-Minimal- Effect-Level (DMEL)

Longterm – Systemic effects		
Dermal - Hydrocarbons - Synthetic Esters - Additives	DNEL	No data available. No data available. No data available.
Longterm – Systemic effects		
Inhalation - Hydrocarbons - Synthetic Esters - Additives	DNEL	No data available. No data available. No data available.
Longterm – Local effects		
Inhalation	DNEL	No data available.

Document No. S0573
 Preparation date: 12/2015

Edition: 1
 Page: 4 of 10

Print date: 2015-12-17

Commercial Name:
 Art. No.

Silber B
 TK2300

Shortterm – Systemic effects		
Inhalation	DNEL	No data available.
Shortterm – Local effects		
Inhalation	DNEL	No data available.

PNEC Predicted No Effect Concentration

Soil	No data available.
Sewage treatment plant	No data available.
Marine water	No data available.
Fresh water sediment	No data available.
Fresh water	No data available.
Sporadic release	No data available.

8.2 Technical Precautions for the avoidance of the exposition on the job:
 Ensure adequate ventilation, especially in confined areas. Draw off vapors.

8.3 Delimitation and monitoring of the exposition:

General protective and hygiene measures:
 When using do not eat, drink or smoke.
 Keep away from food, drink and animal feedingstuffs.
 Take off all contaminated clothing immediately.
 Wash hands before breaks and at end of work.
 Avoid contact with skin and eyes.
 Regular cleaning of equipment and the work area.

Breath Protection
 Not necessary at room temperature.

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.

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.

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 5 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

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

Body Protection
Wear suitable protective clothing.

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

9. Physical and Chemical Data

9.1	Condition: liquid	Colour: light yellow	Odour: like ester
9.2	Change of Condition:		
	9.2.1 Boiling Point:	> 200° C (> 392° F)	
	9.2.2 Pourpoint:	- 20° C (-4° F)	
9.3	Flash Point:	> 220° C (> 428° 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):	0,9 g/cm ³	DIN 51757
9.8	Solubility in H ₂ O at 20°C (68° F):	< 0,1 g/l	
9.9	pH value:	not applicable	
9.10	Viscosity at 20°C (68° F):	70 mm ² /s	DIN 51562
9.11	Other Information:		

10. Stability and Reactivity Data

- 10.1 Stability:
No decomposition if used according to specifications. The base oils in this product are combustible.
- 10.2 Dangerous Chemical Reactions:
Avoid contact with oxidizing agent and inflammable materials.
- 10.3 Hazardous Decomposition Products:
Incomplete burn or thermal decomposition leads to the formation of smoke, carbon dioxide and carbon monoxide.
- 10.4 Other Information:

11. Toxicological Data

Acute Oral Toxicity (Hydrocarbons):	LD ₅₀ :> 2000 mg/kg, rat. OECD-Method 401.
Acute Oral Toxicity (Synthetic esters):	LD ₅₀ : > 5000 mg/kg, rat.
Acute Oral Toxicity (Additives):	No data available.

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 6 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

Acute Dermal Toxicity (Hydrocarbons): LD₅₀: > 2000 mg/kg, rabbit. OECD-Method 402.
Acute Dermal Toxicity (Synthetic esters): No data available.
Acute Dermal Toxicity (Additives): No data available.

Acute Inhalational Toxicity (Hydrocarbons): LC₅₀: < 5000 mg/kg (aerosol), rat.
OECD-Method 403.

Acute Inhalational Toxicity (Synthetic esters): No data available.
Acute Inhalational Toxicity (Additives): No data available.

Repeat-dose toxicity (Oral-Feed-Rat):

Acute Dermal Toxicity (Hydrocarbons): No data available.
Acute Dermal Toxicity (Synthetic esters): No data available.
Acute Dermal Toxicity (Additives): No data available.

Effects after skin contact:

Hydrocarbons: Slight irritation (rabbit). OECD-Method 404.
Synthetic Esters: Prolonged or repeated skin contact may cause irritation.
Additives: Slight irritation (rabbit).

Effects after eye contact:

Hydrocarbons: Slight irritation (rabbit). OECD-Method 405.
Synthetic Esters: May cause slight transient irritation.
Additives: Slight irritation (rabbit).

Effects after resorption / inhalation / swallowing:

Hydrocarbons: No data available.
Synthetic Esters: Inhalation of high vapor concentrations may cause irritation of the nose, mouth, throat and respiratory tract.
After swallowing irritation of mouth, throat and digestive tract possible.
Additives: No known significant effects or critical hazards.

Sensitisation:

Hydrocarbons: No sensitizing effects.
Synthetic Esters: No sensitizing effects known.
Additives: Does not cause skin sensitization.

Mutagenicity:

Hydrocarbons: No experimental evidence for genotoxicity.
Synthetic Esters: No data available.
Additives: No evidence of mutagenic effect.

Carcinogenicity:

Hydrocarbons: No experimental evidence for carcinogenic effects available.
Synthetic Esters: No data available.
Additives: No evidence of a carcinogenic effect.

Reproductive toxicity:

Hydrocarbons: No experimental evidence of reproductive toxicity exist.
Synthetic Esters: No data available.
Additives: No evidence of repro -toxic properties.

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 7 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

Aspiration hazard:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

Specific target organ toxicity – single exposure:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

Specific target organ toxicity – repeated exposure:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

12. Environmental Information

12.1 Ecological toxicity:

Acute Fish Toxicity:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

Acute Daphnia Toxicity:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

Acute Alga Toxicity:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

Acute Bacteria Toxicity:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

12.2 Mobility:

Mobility in Ground and Water:

Hydrocarbons: Sediment adsorption. Medium: Multi media LogKoc: > 6,2.
Synthetic Esters: No data available.
Additives: No data available.

Environmental Distribution Data:

Hydrocarbons: No data available.
Synthetic Esters: No data available.
Additives: No data available.

12.3 Persistence and Degradableness

Hydrocarbons: Biodegradable.
Synthetic Esters: The product is expected to be partially or slowly biodegradable.
BOD28 = 11%, Method OECD 301 B.
Additives: Not readily biodegradable.

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 8 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

- 12.4 Biodegradability:
Hydrocarbons: No data available.
Synthetic Esters: The product is not expected to bioaccumulate.
Additives: LogPow: > 6, potential high.
- 12.5 Result of the determination of the PBT characteristics:
Hydrocarbons: No PBT and vPvB-substances.
Synthetic esters: No data available.
Additives: No data available.
- 12.6 Additional ecological information:
Do not discharge product unmonitored into the environment.

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.
- 13.3 Other Information:
-

14. Transport Information

- 14.1 General Information:
U.N. No.:
Packing group:
- 14.2 UN proper shipping name:
ADR
IMDG
IATA
- 14.3 Transport hazard class

ADR		
unclassified		

IMDG		
unclassified		

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 9 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

IATA		
unclassified		

14.4 Environmental hazards :

-

14.5 Special precautions for user:

-

14.6 Other Information:

ADR
Limited Stock (LQ):
Transport category:
Tunnel registration:
UN „Model Regulation“

15. Regulations

15.1 Labelling according to EC Directives:

Classification and labeling according to EC No. 1272/2008.
The product is not subject to classification according to GHS.

15.2 National German Regulations:

Information about limitation of use:
Employment restrictions concerning juveniles: Not applicable.
Employment restrictions concerning pregnant and lactating women: Not applicable.

Classification according to TRBF:
Not applicable.

Waterhazard class:
Hydrocarbons: Hazardous for water; WGK 1
Synthetic Esters: Hazardous for water; WGK 1
Additives: No data available.

Storage class according to TRGS 510:

Other Regulations:

-

Special Information:

-

15.3 Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out.
This product has no exposure and risk assessment.

15.4 Training advice:

Provide adequate information, instruction and training for operators.

Document No. S0573
Preparation date: 12/2015

Edition: 1
Page: 10 of 10

Print date: 2015-12-17

Commercial Name:
Art. No.

Silber B
TK2300

16. Additional Information

The information of 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.

The product is intended for industrial transformation / use.