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Preparation date: 12/2015

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Commercial Name:
Art. No.

Precision Grease B 52
TF1410

1. Substance / Preparation and Company Name

- 1.1 Commercial Name: Precision Grease B 52
- 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
Ester Oils				none	none
Different Additives				none	none

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Components / REACH - Identifiers	Percentage	CAS-Nr.	Einecs	Hazard Statements	Hazard Pictograms
Metallic soap				none	none
Inorganic thickener - Silica		7631-86-9		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 resistant foam. Cool containers with water in case of fire.
- 5.2 Unsuitable Extinguisher: Jet of water.
- 5.3 Special Hazards / Endangering:
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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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 - Base Oils - Metallic Soap - Silica - Additives	DNEL	No data available. No data available. No data available. No data available.
Longterm – Systemic effects		
Inhalation - Base Oils - Metallic Soap - Silica - Additives	DNEL	No data available. No data available. No data available. No data available.

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Longterm – Local effects		
Inhalation	DNEL	No data available.
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:
 At higher temperatures 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.

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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.

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: pasty	Colour: yellowish	Odour: odourless
9.2	Change of Condition:		
	9.2.1 Boiling Point (base oils):	no data available	
	9.2.2 Pourpoint (base oil):	no data available	ISO 3016
9.3	Flash Point (base oil):	> 200° C (392° F)	ISO 2592
9.4	Ignition Point (base oil):	no data available	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 (base oil) at 20°C (68° F):	about 0,9 g/cm ³	DIN 51757
9.8	Solubility in H ₂ O at 20°C (68° F):	insoluble	
9.9	pH value:	not applicable	
9.10	Viscosity at 25°C (77° C):	660 mPas	DIN 51810
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.

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10.4 Other Information:

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11. Toxicological Data

Acute Oral Toxicity (Base oils): LD₅₀: > 2000 mg/kg, rat.
Acute Oral Toxicity (Metallic Soap): LD₅₀: > 2000 mg/kg, rat. OECD-Method 401.
Acute Oral Toxicity (Thickener Silica): LD₅₀: > 3300 mg/kg, rat. Mortality did not occur.
Acute Oral Toxicity (Additives): LD₅₀: > 2000 mg/kg, rat. OECD-Method 401.

Acute Dermal Toxicity (Base Oil): LD₅₀: > 2000 mg/kg, rabbit.
Acute Dermal Toxicity (Metallic Soap): LD₅₀: > 2000 mg/kg, rabbit. OECD-Method 402.
Acute Dermal Toxicity (Thickener Silica): LC₅₀: > 5000 mg/kg, rabbit.
Acute Dermal Toxicity (Additives): LD₅₀: > 2000 mg/kg, rabbit. OECD-Method 402.

Acute Inhalational Toxicity (Base Oil): LC₅₀: > 5000 mg/m³, rat.
Acute Inhalational Toxicity (Metallic Soap): No data available.
Acute Inhalational Toxicity (Thickener Silica): No data available.
Acute Inhalational Toxicity (Additives): No data available.

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

Acute Dermal Toxicity (Base Oil): No data available.
Acute Dermal Toxicity (Metallic Soap): No data available.
Acute Dermal Toxicity (Thickener Silica): No data available.
Acute Dermal Toxicity (Additives): No data available.

Effects after skin contact:

Base Oil: Slight irritant effect. Rabbit.
Thickener Metallic Soap: No irritant effects known.
Thickener Silica: Rabbit. Non-irritating. Analog OECD Method.
Additives: No irritant effect.

Effects after eye contact:

Base Oil: Slight irritant effect. Rabbit.
Thickener Metallic Soap: No data available.
Thickener Silica: Rabbit. Non-irritating. Analog OECD Method.
Additives: Irritant.

Effects after resorption / inhalation / swallowing:

Base Oil: Vapours may irritate the respiratory system and cause throat and cough. Liquid may irritate the skin.
Thickener Metallic Soap: No data available.
Thickener Silica: No data available.
Additives: No data available.

Sensitisation:

Base Oil: No data available.
Thickener Metallic Soap: No sensitization known.
Thickener Silica: No sensitization known.
Additives: No sensitization known.

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Mutagenicity:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: No evidence of mutagenic effect.
Additives: No data available.

Carcinogenicity:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: No evidence of a carcinogenic effect.
Additives: No data available.

Reproductive toxicity:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: No evidence of repro -toxic properties.
Additives: No data available.

Aspiration hazard:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: Not classified as presenting an aspiration hazard.
Additives: No data available.

Specific target organ toxicity – single exposure:

No data available.

Specific target organ toxicity – repeated exposure:

No data available.

12. Environmental Information

12.1 Ecological toxicity:

Acute Fish Toxicity:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: LC₅₀ (Brachydanio reiro): > 10000 mg/l / 96 h. OECD-Method 203.
Additives: Harmful to fish.

Acute Daphnia Toxicity:

Base Oil: No data available.
Thickener Metallic Soap: No data available.
Thickener Silica: EC₅₀ (Daphnia magna): > 10000 mg/l / 24 h. OECD-Method 202.
Additives: No data available.

Acute Alga Toxicity:

No data available.

Acute Bacteria Toxicity:

No data available.

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12.2 Mobility:

Mobility in Ground and Water:

Base Oil: No data available.
Thickener metallic Soap: No data available.
Thickener Silica: A significant mobility in soil is not to be expected.
Additives: No data available.

Environmental Distribution Data:

No data available.

12.3 Persistence and Degradableness

Base Oil: No data available.
Thickener metallic Soap: No data available.
Thickener Silica: Inorganic substance. Test for biological degradability not feasible.
Additives: No data available.

12.4 Biodegradability:

Base Oil: No data available.
Thickener metallic Soap: No data available.
Thickener Silica: Not to be expected.
Additives: No data available.

12.5 Result of the determination of the PBT characteristics:

Base Oil: No data available.
Thickener metallic Soap: No data available.
Thickener Silica: According to the REACH Regulation no PBT , vPvB substance.
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): 07 06 07*.
waste resulting from production of greases.

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:

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14.2 UN proper shipping name:

ADR
IMDG
IATA

14.3 Transport hazard class

ADR		
unclassified		

IMDG		
unclassified		

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.

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Waterhazard class:

Base Oil: Hazardous for water; WGK 1

Thickener metallic Soap: Hazardous for water; WGK 1

Thickener Silica: Not hazardous for water. Identification No. : 849. KBwS classification.

Additives: Hazardous for water; WGK 1

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.

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.