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Commercial	Name:
Art. No.	

Grease Clock 859-8 + PTFE TF1850

### 1. Substance / Preparation and Company Name

1.1	Commercial Name:	Clock 859-8 + PTFE		
1.2	Identified uses:	Industrial Use. Lubricant.		
1.2.1	Uses advised against:			
1.2	Company:	Dr. Tillwich GmbH Werner Stehr Murber Steige 26	Phone: Fax:	+49-7451-5386-0 +49-7451-5386-70
		D-72160 Horb Germany		@tillwich-stehr.com
1.3	Emergency Call:	+49-7451-5386-0 +49-171-5477230		til 5.00 pm UTC + 1h til 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
Synthetic esters				none	none
Different Additives				none	none
Metallic soap				none	none

 $\boxtimes$ 



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Components / REACH - Identifiers	Percentage	CAS-Nr.	Einecs	Hazard Statements	Hazard Pictograms
Inorganic thickener - Silica		7631-86-9		none	none
PTFE		9002-84-0		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: CO<sub>2</sub> foam or powder, water spray, alcohol resitant foam. Cool containers with water in case of fire.
  5.2 Unsuitable Extinguisher: Jet of water. Water jet directed not directly on the burning product ; it could cause splattering and spread the fire .
- 5.3 Special Hazards / Endangering: In the thermal decomposition of PTFE toxic gases may be create. Carbon oxides Acid fluorides Hydrofluoric carbonyl 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.
   Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.

#### 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.



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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:

7. Handling and Storage

7.1 Handling:

Take precautionary measures against static discharge. 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.

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 Oil - Metallic Soap - Silica - PTFE	DNEL	No data available. No data available. No data available. No data available.



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Longterm – Systemic effects			
Inhalation - Base Oil - Metallic Soap - Silica - PTFE	DNEL	No data available. No data available. No data available. No data available.	
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: 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.



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9.11 Other Information:

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	Breath Protection Not necessary at room temperatur	e.		
	Skin Protection After work wash hands with water Preventive skin protection required resistant material. Avoid longer an	d - Use protective hand lotion or we	ar suitable gloves from oil	
	Suitable gloves:Material:Nitrile rubberCategory:IIIThickness:0,4 mmPermeation time:Level 6 (> 480	min.)		
		ratory conditions. The conditions in e only a guideline assistance with th nanged as fast as possible.		
	Eye Protection Wear eye / face protection, if prod	uct may be splashed.		
	Body Protection Wear suitable protective clothing.			
8.4	Other Information: Protective measures for chemicals	s must be noticed.		
9.	Physical and Chemical Data			
9.1	Condition: pasty	Colour: light yellow	Odour: odourless	
9.2	Change of Condition: 9.2.1 Boiling Point (base oil): 9.2.2 Pourpoint (base oil):	- < - 30° C (< - 22° F)	ISO 3016	
9.3	Flash Point (base oil):	270° C (518° F)	ISO 2592	
9.4	Ignition Point (base oil):	> 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 (base oil) at 20°C (68° F):	0,98 g/cm <sup>3</sup>	DIN 51757	
9.8	Solubility in $H_2O$ at 20°C (68° F):	unsoluble		
9.9	pH value:	not applicable		
9.10	Viscosity of base oil: at 20°C (68° F)	150 mm²/s	DIN 51562	



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### 10. Stability and Reactivity Data

- 10.1 Stability: No decomposition if used according to specifications. The base oil in this product is combustible. Thermal decomposition of PTFE at temperatures above 400° C (752°F) occurs.
- 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. In the thermal decomposition (> 400° C / 752°F ) of PTFE toxic gases may be create.
- 10.4 Other Information:

The inhalation of thermal decomposition products of the polymer (e.g. when smoking contaminated tobacco) can cause polymer fever with flu-like symptoms. The Symtome arises generally not before two to three hours after the inhalation (smoke) and fades away normally within 36 to 48 hours again. No continuous or cumulative effect was observed.

## 11. Toxicological Data

Acute Oral Toxicity (Base oil): Acute Oral Toxicity (Metallic Soap):

Acute Oral Toxicity (Thickener PTFE): Acute Oral Toxicity (Thickener Silica):

Acute Dermal Toxicity (Base Oil): Acute Dermal Toxicity (Metallic Soap):

Acute Dermal Toxicity (Thickener PTFE): Acute Dermal Toxicity (Thickener Silica):

Acute Inhalational Toxicity (Base Oil): Acute Inhalational Toxicity (Metallic Soap):

Acute Inhalational Toxicity (Thickener PTFE): Acute Inhalational Toxicity (Thickener Silica):

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

Acute Dermal Toxicity (Base Oil): Acute Dermal Toxicity (Metallic Soap): Acute Dermal Toxicity (Thickener PTFE): Acute Dermal Toxicity (Thickener Silica):  $LD_{50}$ : > 5000 mg/kg, rat.

 $LD_{50}$ : > 5000 mg/kg, rat. OECD-Method 401  $LD_{50}$ : > 2000 mg/kg, rat. OECD-Method 420 Based on available data , the classification criteria are not met.  $LD_{50}$ : 11280 mg/kg, rat.  $LD_{50}$ : 3300 mg/kg, rat. Mortality did not occur.

No data available.  $LD_{50}$ : > 2000 mg/kg, rat. OECD-Method 402 Based on available data , the classification criteria are not met. No data available.  $LD_{50}$  (rabbit): > 5000 mg/kg.

No data available. Based on available data, the classification criteria are not met. No data available. No data available.

No data available. No data available. There were no toxicologically significant effects. No data available.



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Effects after skin contact	•	
Base Oil:	Prolonged or repeated skin con	tact may cause irritation
Thickener Metallic Soap	<ul> <li>EPISKIN-Test with artificial sk OECD-Method 439, 15 min.</li> <li>Reconstructed human epidern OECD-Method 431, 4 h. Base the classification criteria are not stated and the stated are not stated and the stated are not stated at the stated are not stated at the state</li></ul>	in model, result: not irritating. nis, Result: non-irritant. d on available data,
Thickener PTFE:	Rabbit. Not classified as irritant	
Thickener Silica:	Humans: Not classified as irrita Rabbit. Non-irritating. Analog O	
Effects after eye contact:		
Base Oil:	May cause slight transient irritat	tion.
Thickener Metallic Soap:	Rabbit, result: non-irritant. OEC Based on available data, the cla	D-Method 405.
Thickener PTFE:	No data available.	assincation entena are not met.
Thickener Silica:	Rabbit. Non-irritating. Analog O	ECD Method
Effects after resorption / i	nhalation / swallowing:	
Base Oil:	Inhalation of high vapor concent the nose, mouth, throat and res	
Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	No data available. No data available. No data available.	
Sensitisation:		
Base Oil:	No sensitizing effects known.	
Thickener Metallic Soap:	LLNA, mouse, Result: not sens Based on available data, the cla	
Thickener PTFE:	Does not cause skin sensitization Sensitization did not occur, Pate	on.
Thickener Silica:	No sensitization known.	
Mutagenicity:		
Base Oil: Thickener Metallic Soap:	<ul> <li>Result: negative, OECD-Methol</li> <li>In vitro gene mutation in maminegative, OECD-Method 476</li> <li>Mutagenicity (mammal cytoge Result: negative, OECD-Methol</li> </ul>	malian cells, mouse lymphoma, result: enetic in vitro test), human lymphocytes,
Thickener PTFE:		an cell cultures did not show mutagenic
Thickener Silica:	No evidence of mutagenic effect	ot.
<b>Carcinogenicity:</b> Base Oil: Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	No data available. Based on available data, the cla Not classified as carcinogenic fo No evidence of a carcinogenic of	or humans.



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Comi Art. N	mercial Name: Io.	Grease Clock 859-8 TF1850	+ PTFE
	<b>Reproductive toxicity:</b> Base Oil: Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	No data available. Screening test for reproductive / NOAEL: 1000 mg/kg. OECD-Me Based on available data , the cla No reproductive toxicity. No evidence of repro -toxic prop	ssification criteria are not met.
	<b>Aspiration hazard:</b> Base Oil: Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	No data available. No data available. No data available. Not classified as presenting an a	
	Specific target organ tox Base Oil: Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	icity – single exposure: No data available. Based on available data, the clas No data available. No data available.	ssification criteria are not met.
	Specific target organ tox Base Oil: Thickener Metallic Soap: Thickener PTFE: Thickener Silica:	icity – repeated exposure: No data available. Rat, skin, NOAEL: 1000 mg/kg, Based on available data, the clas No data available. No data available.	
12.	Environmental Information	on	
12.1	Ecological toxicity:		
	Acute Fish Toxicity: Base Oil: Thickener Metallic Soap: Thickener PTFE:	No data available. LL <sub>50</sub> (Oncorhynchus mykiss): > 1 Method: OECD 203. Value refered to the water accun	nulated fraction (WAF).
	Thickener Silica:	The substance is a polymer and LC <sub>50</sub> (Brachydanio reiro): > 1000	10 mg/l / 96 h. Method: OECD 203.
	Acute Daphnia Toxicity: Base Oil: Thickener Metallic Soap:	No data available. EL <sub>50</sub> (Daphnia magna): > 100 mg Method: OECD 202.	-
	Thickener PTFE: Thickener Silica:	Value refered to the water accun No data available. EC <sub>50</sub> (Daphnia magna): > 10000	mg/l / 24 h. Method: OECD 202.
	<b>Acute Alga Toxicity:</b> Base Oil: Thickener Metallic Soap:	No data available. EL50 (Pseudokirchneriella subca Method: OECD 201.	apitata): > 100 mg/l, 72 h, static test.
	Thickener PTFE: Thickener Silica:	No data available. No data available.	



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	Acute Bacteria Toxicity: Base Oil: Thickener metallic Soap: Thickener PTFE: Thickener Silica:	No data available. NOEC: 13 mg/l, 28 d, Activated sl No data available. No data available.	ludge, static test, OECD-Method.
12.2	Mobility:		
	Mobility in Ground and W Base Oil: Thickener metallic Soap: Thickener PTFE: Thickener Silica:	ater: No data available. No data available. No data available. A significant mobility in soil is not	expected.
	Environmental Distribution Base Oil: Thickener metallic Soap: Thickener PTFE: Thickener Silica:	n <b>Data:</b> No data available. No data available. No data available. No data available.	
12.3	Persistence and Degradabl Base Oil: Thickener metallic Soap:	eness The product is expected to be par BOD28 = 11%, Method OECD 30 Aerobic, 97 %, Result: readily bio activated sludge, Method: OECD	1 B. degradable. Exposure time: 28 d,
	Thickener PTFE: Thickener Silica:	No data available. Inorganic substance. Test for biological degradability not feasible.	
12.4	Biodegradability: Base Oil: Thickener metallic Soap: Thickener PTFE: Thickener Silica:	The product is not expected to bid This substance is not considered No data available. Not to be expected.	
12.5	Result of the determination Base Oil: Thickener metallic Soap: Thickener PTFE: Thickener Silica:	of the PBT characteristics: No data available. Based on available data, the class No data available. According to the REACH Regulat	
12.6	Additional ecological inform	ation:	

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.



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- 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	

IN	IDG	
ur	nclassified	

ΙΑΤΑ		
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"



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### 15. Regulations

- 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:Base Oil:Hazardous for water; WGK 1Thickener metallic Soap:Hazardous for water; WGK 1Thickener PTFE:Not hazardous for water. Identification No .: 766. KBwS classification.Thickener Silica:Not hazardous for water. Identification No .: 849. KBwS classification.

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.