

**Safety Data Sheet according to RL 1907/2006 EU**
**Antispread E2 / 15 / 30 / 50 / 100 / 200 / 400 / FE60 / Concentrate**

Article No: TE1402, TE1403, TE1405, TE1410, TE1420, TE1440, TE6001

Document-No.: S0457

Edition: 2

Print date: 2019-10-14

Preparation date: 10/2019

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**1. Substance / Preparation and Company Name**

1.1 Commercial Name: Antispread E2

1.2 Identified Uses: Industrial Use

1.2.1 Uses advised against:

1.2 Company:	Dr. Tillwich GmbH Werner Stehr Murber Steige 26 D-72160 Horb Germany	Phone: +49-7451-5386-0 Fax: +49-7451-5386-70 E-Mail: info@tillwich-stehr.com
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1.3 Emergency Call:	+49-7451-5386-0 +49-171-5477230	8.00 am until 5.00 pm UTC + 1h 5.00 pm until 8.00 am UTC + 1h
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**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 products are not hazardous substances / mixtures and therefore exempt from labeling.**

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

The products are 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
Partially fluorinated ether		-	-	none	none
Partially fluorinated Polymer		-	-	none	none
Additives		-	-	none	none

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

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#### 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. If irritation occurs, consult a doctor.
  - 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: This products are not combustible.  
Cool container with spray of water.
  - 5.2 Unsuitable Extinguisher:
  - 5.3 Special Hazards / Endangering:  
In the thermal decomposition of the products toxic gases may be create.  
Carbon oxides  
Acid fluorides  
Hydrogen fluoride (HF)  
Hydrofluoric carbonyl  
Exposure to decomposition products may cause a health hazard.
  - 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.
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#### 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. Collect spilled material in a closed container.  
The material must be disposed of as hazardous waste.
  - 6.4 Other Information:  
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**7. Handling and Storage**
**7.1 Handling:**

Use only in well-ventilated areas. Keep container tightly closed when not in use. Keep away from heat and hot surfaces. Do not smoke. Take precautions against static discharges. Avoid contact with oxidizing agents.

**7.2 Storage:**

Keep only in the original container and protected from light and heat. Avoid contact with oxidizing agent. Keep away from inflammable materials and fluids. Storage temperature: 15° C – 20° C (59° F – 68° F). Avoid temperature changes.

**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	DNEL	No data available.
Inhalation	DNEL	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.

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**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:  
 Remove gas/fumes/vapour or spray. Extract or filter foul air. Observe limiting values.

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

In case of insufficient ventilation, wear suitable respiratory equipment.

Skin Protection

Avoid prolonged contact with skin. After work wash hands with water and soap.

Preventive skin protection required - Use protective hand lotion or wear suitable gloves from solvent 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. In each case the data of the manufacturer as well as the respective BG-rules are to be considered.

Contaminated gloves should be changed as fast as possible.

Eye Protection

Avoid contact with eyes. Wear eye/face protection, if the product may be splashed.

Body Protection

Wear suitable protective clothing.

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

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**9. Physical and Chemical Data**

9.1	Condition: liquid	Colour: colourless	Odour: odourless
9.2	Change of Condition:		
	9.2.1 Boiling Point:	30° - 60° C (86 - 140° F)	
	9.2.2 Pourpoint:		
9.3	Flash Point:	not applicable	ISO 2592
9.4	Ignition Point:	not applicable	DIN 51794
9.5	Explosion Limits:		
	lower: not applicable	upper: not applicable	
9.6	Vapour Pressure at 20°C (68° F):	no data available	
9.7	Density at 20°C (68° F):	1,5 g/cm <sup>3</sup>	DIN 51757
9.8	Solubility at 20°C (68° F) in H <sub>2</sub> O:	insoluble	
9.9	pH value:	not applicable	
9.10	Viscosity at 20°C (68° F):	-	
9.11	Other Information:		

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**10. Stability and Reactivity Data**

10.1 Stability:  
Stably. A dangerous polymerization does not arise.

10.2 Dangerous Chemical Reactions:  
Reactions with acids, bases and oxidizing agents are possible. Thermal decomposition at 300° C (572° F). If the product is stored according to this instructions, no dangerous reactions are to be expected.

10.3 Hazardous Decomposition Products:  
Hydrogen fluoride (HF) and perfluoroisobutylene (PFIB)

10.4 Other Information:  
The vapours of this product are heavier than air. At high concentration, i.e. in smaller rooms or closed containers respectively, danger of suffocation due to displacement of atmospheric oxygen.

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**11. Toxicological Data**

Acute Oral Toxicity (LD <sub>50</sub> ):	> 5 g/kg (rat). Practically not injurious to health.
Acute Dermal Toxicity:	No data available.
Acute Inhalational Toxicity:	No data available.

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

There were no toxicologically significant effects.

#### Effects after skin contact:

Rabbit. Not classified as irritant.

#### Effects after eye contact:

Rabbit. Not classified as irritant.

#### Effects after resorption / inhalation / swallowing:

Under the intended use of the products, no adverse health effects are expected.

#### Sensitisation:

Guinea pigs: Does not cause skin sensitization.

#### Mutagenicity:

Mutagenicity (bacterial cells), in vitro. Result: negative.

#### Carcinogenicity:

No data available.

#### Reproductive toxicity:

No reproductive toxicity.

#### Aspiration hazard:

No risk of aspiration.

#### Specific target organ toxicity - single exposure:

No data available.

#### Specific target organ toxicity - repeated exposure:

No data available.

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## 12. Environmental Information

### 12.1 Ecological toxicity:

Atmospheric half-life: 5 Years

Global Warming Potential (GWP): 350

Ozone depletion potential: 0

**Acute Fish Toxicity:** LC<sub>50</sub> (Pimephales promelas): > 7,9 mg/l, 96 h.

**Acute Daphnia Toxicity:** EC<sub>50</sub> (Daphnia magna): > 10 mg/l, 48 h.

**Acute Alga Toxicity:** Inhibitor Concentration 50 % (Chlorobionta): > 8,9 mg/l, 96 h.

**Acute Bacteria Toxicity:** No data available.

### 12.2 Mobility:

#### Mobility in Ground and Water:

No data available.

#### Environmental Distribution Data:

No data available.

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12.3 Persistence and Degradableness  
Not biodegradable.

12.4 Biodegradability:  
No data available.

12.5 Result of the determination of the PBT characteristics:  
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 01 03\*, organic halogenated solvent.

13.2 Package:  
EWC - Code: (European waste category list)  
15 01 10\*, contaminated package.

13.3 Other Information:  
This product is to be delivered to a recycling or disposal after use. Any mixture of foreign matters or other kind of solvents is forbidden after use. Improper disposal endangers the environment.

**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		

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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 products are 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:

Hazardous for water; WGK 1

Storage class according to TRGS 510:

Other Regulations:

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

Organic substances, section 5.2.5 air generally, 100 %.

Special Information:



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#### 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.

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### 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.