

# SAFETY DATA SHEET

according to regulation (EG) No. 1907/2006 (REACH)

Processing date : 01/21/2021

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## Toolcraft Antistatik Spray

### SECTION 1: Designation of fabric respectively of mixture and of company

#### 1.1. product identifier

Trade name / Designation :

Toolcraft Antistatik Spray

#### 1.2. Relevant identified uses of fabric or mixture and uses, from those discouraged becomes

use of Substance / Mixture :

antistatic agents

#### 1.3. details for the Delivery, the the safety data sheet provides

supplier (manufacturer/importer/only representative/downstream User/Dealer):

ÄRONIX products – Peter Magin

Albert- Einstein-Str. 5

69190 Walldorf

Germany

Phone: 0049-6227-359840

Fax: 0049-6227-359841

Email: [Spezialschmierstoffe@aeronix.de](mailto:Spezialschmierstoffe@aeronix.de)

Website: [www.aeronix.de](http://www.aeronix.de)

#### 1.4. emergency number

Tel.: 8:00 a.m. – 5:00 p.m. 06227/35 98 40

### SECTION 2: Possible Driven

#### 2.1. classification of fabric or mixture

classification according to regulation (EG) No. 1272/2008 [CLP]:

| Gefahrenklassen und Gefahrenkategorien          | Gefahrenhinweise  | Einstufungsverfahren |
|---|---|----------------------|
| Aerosole (Aerosol 1)                            | H222; H229: Extrem entzündbares Aerosol.; Behälter steht unter Druck: Kann bei Erwärmung bersten. |                      |
| Schwere Augenschädigung/-reizung (Eye Irrit. 2) | H319: Verursacht schwere Augenreizung.  |                      |

#### 2.2. marking elements

Labelling according to regulation (EG) No. 1272/2008 [CLP]

Hazard pictograms :



**GHS02**  
flame



**GHS07**  
exclamation mark

signal word: Danger

risk-determining components to the Labeling:

propan-2-ol; 2-methylbutane; butanone

| Gefahrenhinweise für physikalische Gefahren |   |
|---|---|
| H222  | Extrem entzündbares Aerosol.                            |
| H229  | Behälter steht unter Druck: Kann bei Erwärmung bersten. |

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### Gefahrenhinweise für Gesundheitsgefahren

H319 Verursacht schwere Augenreizung.

### supplementary Danger characteristics: -

#### Sicherheitshinweise Prävention

|      |   |
|------|---|
| P210 | Von Hitze, heißen Oberflächen, Funken, offenen Flammen und anderen Zündquellen fernhalten. Nicht rauchen. |
| P211 | Nicht gegen offene Flamme oder andere Zündquelle sprühen.   |
| P251 | Nicht durchstechen oder verbrennen, auch nicht nach Gebrauch.   |
| P280 | Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz/Gehörschutz/... tragen.                        |

#### Sicherheitshinweise Reaktion

|                    |   |
|--------------------|---|
| P305 + P351 + P338 | BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser ausspülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen. |
| P337 + P313        | Bei anhaltender Augenreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.  |

#### Sicherheitshinweise Lagerung

P410 + P412 Vor Sonnenbestrahlung schützen. Nicht Temperaturen über 50 °C/122 °F aussetzen.

### 2.3. Other Driven

No Data accessible

## SECTION 3: composition / Declarations to components

### 3.2. mixtures

#### Description:

mixture out of following fabrics and harmless fabrics.

#### dangerous ingredients / dangerous impurities / Stabilizers:

| Produktidentifikatoren  | Stoffname<br>Einstufung gemäß Verordnung (EG) Nr. 1272/2008 [CLP]   | Konzentration         |
|---|---|-----------------------|
| CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6<br>Index-Nr.: 603-002-00-5<br>REACH-Nr.:<br>01-2119457610-43-0000 | <b>Ethanol</b><br>Eye Irrit. 2, Flam. Liq. 2<br>H225-H319   | 23 – < 39,41<br>Vol-% |
| CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7<br>REACH-Nr.:<br>01-2119457558-25-0000                            | <b>Propan-2-ol</b><br>Eye Irrit. 2, Flam. Liq. 2, STOT SE 3<br><b>Gefahr</b> H225-H319-H336                                 | 10 – < 17,84<br>Vol-% |
| CAS-Nr.: 119415-05-3  | <b>Mono-, Di-, Tri-(C16-C20)-Alkyltetraglykolether-0-phosphorsaeureester</b><br>Skin Irrit. 2<br><b>Achtung</b> H315        | 1 – < 1,87<br>Vol-%   |
| CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8<br>REACH-Nr.:<br>01-2119475602-38                                 | <b>2-Methylbutan</b><br>Aquatic Chronic 2, Asp. Tox. 1, Flam. Liq. 1, STOT SE 3<br><b>Gefahr</b> H224-H304-H336-H411-EUH066 | 0 – < 0,62<br>Vol-%   |
| CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0<br>Index-Nr.: 606-002-00-3<br>REACH-Nr.:<br>01-2119457290-43-0000 | <b>Butanon</b><br>Eye Irrit. 2, Flam. Liq. 2, STOT SE 3<br><b>Gefahr</b> H225-H319-H336                                     | 0 – < 0,4<br>Vol-%    |

text the H- and EUH phrases: please refer Section 16

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## Toolcraft Antistatik Spray

### SECTION 4: First Aid Measures

#### 4.1. Description the First Aid Measures

##### General Information :

In the event of an accident or if you feel unwell, seek medical advice immediately (if possible, the operating instructions or show the safety data sheet). Do not leave affected person unattended. casualties from the danger zone removed. At unconsciousness and existing breathing in stable lateral position bring and medical advice catch up. soiled, soaked Clothing get undressed.

##### After Breathe in:

For fresh air care for. At irritation the respiratory tract Physician visit.

##### At skin contact:

At contact with the skin immediately wash off with much Water and Soap. At skin irritation or - rash : medical advice obtain/medical Help consult.

##### After eye contact:

At contact with the Eyes immediately at open eyelid gap 10 until 15 minutes with flowing Water wash and ophthalmologist visit.

##### After Swallow:

mouth rinse. No Vomit bring about. plentiful Water in small Swallow drink permit (dilution effect). Immediately Physician consult .

##### self protection of First Aider :

personal protective gear use .

#### 4.2. most important acute and delayed occurring symptoms and effects

heaviness Eye damage / irritation

#### 4.3. Hints on medical emergency aid or special treatment

symptomatic treatment .

### SECTION 5: Measures to the firefighting

#### 5.1. extinguishing agent

##### appropriate Extinguishing media :

water spray jet more alcohol resistant foam extinguishing powder carbon dioxide (CO<sub>2</sub>)

##### unsuitable Extinguishing media :

full water jet

#### 5.2. Special information arising from the substance or mixture Driven

flammable

##### dangerous combustion products:

carbon monoxide

carbon dioxide

(CO<sub>2</sub>) Nitrogen

oxides ( NO<sub>x</sub> )

aldehydes

At Fire: gases / vapors , poisonous

#### 5.3. Hints for the firefighting

ambient air independent respirator and chemical protective suit carry.

#### 5.4. Additional Hints

contaminated extinguishing water separated collect. Not in the sewerage or bodies of water reach permit.

### SECTION 6: Measures at accidental release

#### 6.1. personal Precautions, protective equipment and in emergencies

##### applicable Proceedings

##### 6.1.1. Not for emergencies trained staff

##### personal Precautions :

persons in Security bring .

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### Protective gear:

Protective gloves/protective clothing/eye protection/face protection carry.

### 6.1.2. emergency services

#### personal Protective gear:

personal Protective gear: please refer Section 8th

### 6.2. environmental protection measures

Not in the sewerage or bodies of water reach permit.

### 6.3. methods and material for restraint and cleaning

#### For restraint:

With liquid-binding material (Sand, diatomaceous earth, acid binder, universal binder) to record.

### 6.4. reference on other sections

secure Handling: please refer Section 7 personal Protective gear: please refer Section 8th Disposal: please refer Section 13

### 6.5. Additional Hints

To the avoidance one contamination the Environment suitable container use.

## SECTION 7: handling and storage

### 7.1. protective measures to the secure handling

#### protective measures

#### Hints for the secure Handling :

personal protective gear carry (please refer Section 8th).

#### Fire protection measures:

From Heat, be called Surfaces, Spark, open Flames as well as others ignition source types keep away. Not smoking.

#### Measures to the prevention from aerosol and dust formation:

For sufficient ventilation and punctiform suction at critical points care for.

#### Environmental protection measures:

Not in the sewerage or bodies of water reach permit.

#### Hints to the general industrial hygiene

At the Work not eat, drink, smoking. Contact with Eyes and skin is to avoid.

### 7.2. Conditions to the secure storage under consideration from intolerances

#### Technical Measures and Storage conditions:

container tight closed hold and at one cool, good aired Location store.

#### Packing Materials:

Only in the original container keep/store.

#### Notes on storage together:

Not together to store with: food and feed  
Not together to store with: Strength Acid, Strength lye

storage class (TRGS 510, Germany): 2 B – aerosol dispensers and lighters

### 7.3. specific end uses

#### Recommendation :

technical leaflet note .

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## Toolcraft Antistatik Spray

### SECTION 8th: limitation and monitoring the Exposure/Personalprotective equipment

#### 8.1. To monitoring parameter

##### 8.1.1. Occupational Exposure Limits

| Grenzwerttyp (Herkunftsland) | Stoffname  | ① Langzeit-Arbeitsplatzgrenzwert<br>② Kurzzeit-Arbeitsplatzgrenzwert<br>③ Momentanwert<br>④ Überwachungs- bzw. Beobachtungsverfahren<br>⑤ Bemerkung |
|------------------------------|--|---|
| TRGS 900 (DE)                | Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6       | ① 200 ppm (380 mg/m <sup>3</sup> )<br>② 800 ppm (1.520 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | Butan<br>CAS-Nr.: 106-97-8<br>EG-Nr.: 203-448-7        | ① 1.000 ppm (2.400 mg/m <sup>3</sup> )<br>② 4.000 ppm (9.600 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7   | ① 200 ppm (500 mg/m <sup>3</sup> )<br>② 400 ppm (1.000 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | Propan<br>CAS-Nr.: 74-98-6<br>EG-Nr.: 200-827-9        | ① 1.000 ppm (1.800 mg/m <sup>3</sup> )<br>② 4.000 ppm (7.200 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | Isobutan<br>CAS-Nr.: 75-28-5<br>EG-Nr.: 200-857-2      | ① 1.000 ppm (2.400 mg/m <sup>3</sup> )<br>② 4.000 ppm (9.600 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | 2-Methylbutan<br>CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8 | ① 1.000 ppm (3.000 mg/m <sup>3</sup> )<br>② 2.000 ppm (6.000 mg/m <sup>3</sup> )  |
| IOELV (EU)                   | 2-Methylbutan<br>CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8 | ① 1.000 ppm (3.000 mg/m <sup>3</sup> )  |
| IOELV (EU)                   | Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0       | ① 200 ppm (600 mg/m <sup>3</sup> )<br>② 300 ppm (900 mg/m <sup>3</sup> )  |
| TRGS 900 (DE)                | Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0       | ① 200 ppm (600 mg/m <sup>3</sup> )<br>② 200 ppm (600 mg/m <sup>3</sup> )<br>⑤ (kann über die Haut aufgenommen werden)                               |
| TRGS 900 (DE)                | Kohlenwasserstoffe, TRGS 900                           | ① 0 mg/m <sup>3</sup><br>⑤ Massenanteil (Gew-%): 0  |

##### 8.1.2. biological limits

| Grenzwerttyp (Herkunftsland) | Stoffname  | Grenzwert | ① Parameter<br>② Untersuchungsmaterial<br>③ Zeitpunkt der Probenahme<br>④ Bemerkung |
|------------------------------|--|-----------|---|
| TRGS 903 (DE)                | Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 25 mg/L   | ① Aceton<br>② Blut<br>③ Expositionsende bzw. Schichtende                            |
| TRGS 903 (DE)                | Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 25 mg/L   | ① Aceton<br>② Urin<br>③ Expositionsende bzw. Schichtende                            |
| TRGS 903 (DE)                | Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 2 mg/L    | ① 2-Butanon<br>② Urin<br>③ Expositionsende bzw. Schichtende                         |

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### 8.1.3. DNEL/PNEC values

| Stoffname  | DNEL Wert               | ① DNEL Typ<br>② Expositionsweg                                      |
|--|-------------------------|---|
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 950 mg/m <sup>3</sup>   | ① DNEL Arbeitnehmer<br>② Langzeit – Inhalation, systemische Effekte |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 1.900 mg/m <sup>3</sup> | ① DNEL Arbeitnehmer<br>② Akut - Inhalation, systemische Effekte     |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 343 mg/kg<br>KG/Tag     | ① DNEL Arbeitnehmer<br>② Langzeit – dermal, systemische Effekte     |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 500 mg/cm <sup>2</sup>  | ① DNEL Arbeitnehmer<br>② Langzeit – Inhalation, systemische Effekte |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 89 mg/cm <sup>2</sup>   | ① DNEL Verbraucher<br>② Langzeit – Inhalation, systemische Effekte  |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 888 mg/kg<br>KG/Tag     | ① DNEL Arbeitnehmer<br>② Langzeit – dermal, systemische Effekte     |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 319 mg/kg<br>KG/Tag     | ① DNEL Verbraucher<br>② Langzeit – dermal, systemische Effekte      |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 600 mg/m <sup>3</sup>   | ① DNEL Arbeitnehmer<br>② Langzeit – Inhalation, systemische Effekte |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 1.161 mg/kg<br>KG/Tag   | ① DNEL Arbeitnehmer<br>② Langzeit – dermal, systemische Effekte     |

| Stoffname  | PNEC Wert  | ① PNEC Typ                               |
|--|------------|--|
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 0,96 mg/l  | ① PNEC Gewässer, Süßwasser               |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 0,79 mg/l  | ① PNEC Gewässer, Meerwasser              |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 580 mg/l   | ① PNEC Kläranlage                        |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 3,6 mg/kg  | ① PNEC Sediment, Süßwasser               |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 2,9 mg/kg  | ① PNEC Sediment, Meerwasser              |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 0,63 mg/kg | ① PNEC Boden                             |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 720 mg/kg  | ① PNEC Sekundärvergiftung                |
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6     | 2,75 mg/l  | ① PNEC Gewässer, periodische Freisetzung |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 140,9 mg/l | ① PNEC Gewässer, Süßwasser               |

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|--|-------------|--|
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 140,9 mg/l  | ① PNEC Gewässer, Meerwasser              |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 2.251 mg/l  | ① PNEC Kläranlage                        |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 28 mg/kg    | ① PNEC Boden                             |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 160 mg/kg   | ① PNEC Sekundärvergiftung                |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | 140,9 mg/l  | ① PNEC Gewässer, periodische Freisetzung |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 55,8 mg/l   | ① PNEC Gewässer, Süßwasser               |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 55,8 mg/l   | ① PNEC Gewässer, Meerwasser              |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 709 mg/l    | ① PNEC Kläranlage                        |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 284,7 mg/kg | ① PNEC Sediment, Süßwasser               |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 284,7 mg/kg | ① PNEC Sediment, Meerwasser              |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0     | 22,5 mg/kg  | ① PNEC Boden                             |

### 8.2. limitation and monitoring the exposure

#### 8.2.1. appropriate technical control devices

No Data accessible

#### 8.2.2. personal protective gear

##### Eye / face protection :

frame glasses with side protection DIN EN 166

##### Skin protection:

Tested protective gloves are to be worn EN ISO 374 Suitable material: NBR ( nitrile rubber ) chemical protective gloves are in of their execution in dependency from concentration of hazardous substances and -crowd job specific to select.

##### respiratory protection:

If technical suction or ventilation measures not possible or insufficient are, must respiratory protection carried become.

#### 8.2.3. limitation and monitoring the environmental exposure

No Data accessible

## SECTION 9: physical and chemical Characteristics

### 9.1. Declarations to the basic physical and chemical Characteristics

#### Look

state of aggregation: Aerosol

colour: clear

Odor: not certainly

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### security related basic data

| Parameter  |                          | bei °C | Methode | Bemerkung |
|--|--------------------------|--------|---------|-----------|
| pH-Wert  | 7                        | 20 °C  |         |           |
| Schmelzpunkt   | <i>nicht bestimmt</i>    |        |         |           |
| Gefrierpunkt   | <i>nicht bestimmt</i>    |        |         |           |
| Siedebeginn und Siedebereich                         | <i>nicht bestimmt</i>    |        |         |           |
| Zersetzungstemperatur                                | <i>nicht bestimmt</i>    |        |         |           |
| Flammpunkt   | <i>nicht bestimmt</i>    |        |         |           |
| Verdampfungsgeschwindigkeit                          | <i>nicht bestimmt</i>    |        |         |           |
| Selbstentzündungstemperatur                          | <i>nicht bestimmt</i>    |        |         |           |
| Obere/untere Entzündbarkeits- oder Explosionsgrenzen | 1,5 – 10,5 Vol-%         |        |         |           |
| Dampfdruck   | <i>nicht bestimmt</i>    |        |         |           |
| Dampfdichte  | <i>nicht bestimmt</i>    |        |         |           |
| Dichte   | ≈ 0,79 g/cm <sup>3</sup> | 20 °C  |         | Wirkstoff |
| Relative Dichte                                      | <i>nicht bestimmt</i>    |        |         |           |
| Schüttdichte   | <i>nicht bestimmt</i>    |        |         |           |
| Wasserlöslichkeit                                    | teilweise löslich        | 20 °C  |         |           |
| Verteilungskoeffizient n-Octanol/ Wasser             | <i>nicht bestimmt</i>    |        |         |           |
| Viskosität, dynamisch                                | <i>nicht bestimmt</i>    |        |         |           |
| Viskosität, kinematisch                              | <i>nicht bestimmt</i>    |        |         |           |

### 9.2. Other Declarations

No Data accessible

## SECTION 10: stability and reactivity

### 10.1. reactivity

container stands under Print: Can at warming burst. Extreme flammable aerosol.

### 10.2. Chemical stability

The product is under the recommended storage, usage and temperature conditions chemical stable.

### 10.3. Possibility more dangerous reactions

It are no dangerous reactions known.

### 10.4. To avoidant Conditions

From Heat, be called Surfaces, Spark, open Flames as well as others ignition source types keep away. Not smoke .

### 10.5. incompatible materials

oxidizer , strong

### 10.6. dangerous decomposition products

decomposes itself not at the provided Use.



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### SECTION 11: Toxicological Declarations

#### 11.1. Declarations to the hazard classes in the senses the regulation (EG) No. 1272/2008

| Stoffname  | Toxikologische Angaben   |
|--|--|
| Ethanol<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6   | <b>LD<sub>50</sub> oral:</b><br>10.470 mg/kg (Ratte) OECD 401<br><b>LD<sub>50</sub> dermal:</b><br>>2.000 mg/kg (Kaninchen) OECD 402<br><b>LC<sub>50</sub> Akute inhalative Toxizität (Dampf):</b><br>51 mg/l 4 h (Ratte) OECD 403 |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7   | <b>LD<sub>50</sub> oral:</b><br>5.840 mg/kg (Ratte) OECD 401<br><b>LD<sub>50</sub> dermal:</b><br>13.900 mg/kg (Kaninchen) OECD 402<br><b>LC<sub>50</sub> Akute inhalative Toxizität (Dampf):</b><br>25 mg/l 6 h (Ratte) OECD 403  |
| Mono-, Di-, Tri-(C16-C20)-Alkyltetraglykoether-0-phosphorsaeureester<br>CAS-Nr.: 119415-05-3 | <b>LD<sub>50</sub> oral:</b><br>>2.000 mg/kg (Ratte) OECD 401  |
| 2-Methylbutan<br>CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8                                       | <b>LD<sub>50</sub> oral:</b><br>>2.000 mg/kg (Ratte) OECD 401<br><b>LC<sub>50</sub> Akute inhalative Toxizität (Gas):</b><br>21.000 ppmV 4 h (Ratte + Maus)  |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0   | <b>LD<sub>50</sub> oral:</b><br>>2.193 mg/kg (Ratte) OECD 423<br><b>LC<sub>50</sub> Akute inhalative Toxizität (Dampf):</b><br>34 mg/l 4 h (Ratte)<br><b>LD<sub>50</sub> dermal:</b><br>>5.000 mg/kg (Kaninchen) OECD 402          |

#### acute oral Toxicity:

Because of the available Data are the classification criteria not Fulfills.

#### acute dermal Toxicity:

Because of the available Data are the classification criteria not Fulfills.

#### acute inhalative Toxicity:

Because of the available Data are the classification criteria not Fulfills.

#### corrosion/irritation on the Skin:

Because of the available Data are the classification criteria not Fulfills.

#### heaviness Eye damage/irritation:

Caused heavy eye irritation.

#### sensitization from airways or Skin:

Because of the available Data are the classification criteria not Fulfills.

#### Germ cell mutagenicity :

Because of the available Data are the classification criteria not Fulfills.

#### Carcinogenicity :

Because of the available Data are the classification criteria not Fulfills.

#### Reproductive Toxicity:

Because of the available Data are the classification criteria not Fulfills.

#### specific Target Organ Toxicity at unique Exposure:

Because of the available Data are the classification criteria not Fulfills.

#### specific Target Organ Toxicity at repeated Exposure:

Because of the available Data are the classification criteria not Fulfills.

#### Aspiration hazard:

Because of the available Data are the classification criteria not Fulfills.

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### Additional Declarations:

No Data accessible

### 11.2. Declarations above other Driven

No Data accessible

## SECTION 12: environmental Declarations

### 12.1. toxicity

### 12.2. persistence and degradability

### 12.3. bioaccumulative potential

| substance name               | log K <sub>ow</sub> | bioconcentration factor (BCF) |
|------------------------------|---------------------|-------------------------------|
| ethanol<br>CAS No. : 64-17-5 | -0.31               |                               |

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| Stoffname  | Log Kow   | Biokonzentrationsfaktor (BCF) |
|--|---|-------------------------------|
| EG-Nr.: 200-578-6  |   |                               |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7   | 0,05  |                               |
| 2-Methylbutan<br>CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8   | 3,45  | 171                           |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0   | 0,3   |                               |
| <b>12.4. mobility in the Floor</b><br>No Data accessible   | enbogenforelle)) OECD 203<br><b>EC<sub>50</sub></b> : 858 mg/l 2 d (Krebstiere, Daphnien)<br><b>EC<sub>50</sub></b> : 275 mg/l 3 d (Alge/Wasserpflanze, Chlorella vulgaris) OECD 201  |                               |
| <b>12.5. Results the PBT and vPvB assessment</b>   |   |                               |
| Stoffname  | Ergebnisse der PBT- und vPvB-Beurteilung  |                               |
| Ethanol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7<br>CAS-Nr.: 64-17-5<br>EG-Nr.: 200-578-6                        | Der Stoff im Gemisch erfüllt nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.<br><b>EC<sub>50</sub></b> : 9.640 mg/l 4 d (Fisch, Pimephales promelas)   |                               |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7   | Der Stoff im Gemisch erfüllt nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.   |                               |
| Mono-, Di-, Tri- (C16-C20)-Alkyltetraglykoether-0-phosphorsäureester<br>CAS-Nr.: 119415-053<br>EG-Nr.: 201-142-8 | Der Stoff im Gemisch erfüllt nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.<br><b>EC<sub>50</sub></b> : 100 mg/l 4 d (Fisch, Danio rerio (Zebraabbling)) OECD 203   |                               |
| 2-Methylbutan<br>CAS-Nr.: 78-78-4<br>EG-Nr.: 201-142-8   | Der Stoff im Gemisch erfüllt nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.   |                               |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0   | Der Stoff im Gemisch erfüllt nicht die PBT/vPvB Kriterien gemäß REACH, Anhang XIII.<br><b>EC<sub>50</sub></b> : 25,12 mg/l 3 d (Alge/Wasserpflanze)   |                               |
| Butanon<br>CAS-Nr.: 78-93-3<br>EG-Nr.: 201-159-0   | <b>12.6. endocrine disruptors Characteristics</b><br>No Data accessible<br><b>12.7. Other harmful effects</b><br>No Data accessible   |                               |
|  | <b>LC<sub>50</sub></b> : 2.993 mg/l 4 d (Fisch, Pimephales promelas (Dickkopfelritze)) OECD 203<br><b>EC<sub>50</sub></b> : 308 mg/l 2 d (Krebstiere, Daphnia magna (Große r Wasserfloh)) OECD 202<br><b>EC<sub>50</sub></b> : 1.972 mg/l 3 d (Fisch, Pseudokirchneriella subcapitata) OECD 201 |                               |

## SECTION 13: Hints to the disposal

| Stoffname  | Biologischer Abbau | Bemerkung |
|--|--------------------|-----------|
| disposal according to the official regulations.  | Ja, schnell        |           |
| <b>13.1.1. disposal of product/the Packaging Waste</b><br>EG-Nr.: 200-578-6<br>codes/waste designations according to FAK/AVV waste key | Ja, schnell        |           |
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7   | Ja, schnell        |           |
| * Mono-, Di-, Tri- (C16-C20)-Alkyltetraglykoether-0-phosphorsäureester<br>CAS-Nr.: 119415-053  | Ja, schnell        |           |
| 2-Methylbutan<br>CAS-Nr.: 78-78-4  | Ja, schnell        |           |
| * EG-Nr.: 201-142-8  |                    |           |
| Butanon<br>CAS-Nr.: 78-93-3  | Ja, schnell        |           |

### waste treatment solutions

### Appropriate disposal / Product:

Because of one waste disposal the responsible approved disposer speak to.

### Appropriate disposal / Packaging:

Complete deflated packagings can one recovery fed become.

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### SECTION 14: Declarations for the transport

Landtransport (ADR/  
RID)

#### 14.1. UN-Nummer oder ID-Nummer

UN 1950

#### 14.2. Ordnungsgemäße UN-Versandbezeichnung

DRUCKGASPACKUNGEN

#### 14.3. Transportgefahrenklassen



2.1

#### 14.4. Verpackungsgruppe

nicht bestimmt

#### 14.5. Umweltgefahren

Nein

#### 14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Sondervorschriften:

Begrenzte Menge

(LQ): 1 L

Freigestellte Mengen

(EQ):

Gefahr-Nr. (Kemler-  
zahl):

Klassifizierungscode:

5F

Tunnelbeschrän-  
kungscode: (D)

Bemerkung:

#### 14.7. bulk transportation on to the seaway according to IMO instruments

No Data accessible

### SECTION 15: legislation

#### 15.1. regulations to Security, health and Environmental Protection/Specific legislation for the Material or the mixture

##### 15.1.1. EU regulations

Other EU regulations :

policy 2012/18/EU to the mastery the Driven heavier accidents with dangerous fabrics [Seveso- III Directive], Hazard categories:

- P3a aerosols the category 1 or 2, the flammable gases the category 1 or 2 or flammableliquids the category 1 contain

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### 15.1.2. national regulations

 [EN] national regulations

#### Hints to the Employment Restriction

5 MuSchRiV .

22 JArbSchG .

4 MuSchRiV .

#### Accident Ordinance

##### for in the product included Fabrics:

Hazard categories :

- P3a aerosols the category 1 or 2, the flammable gases the category 1 or 2 or flammable liquids the category 1 contain

by name mentioned dangerous Fabrics :

- liquefied flammable gases category 1 or 2 (including LPG) and natural gas

#### water hazard class

#### WGK:

1 - weak hazardous to water

### 15.2. chemical safety assessment

No Data accessible

## SECTION 16: Other Declarations

### 16.1. Change Notices

No Data accessible

### 16.2. abbreviations and acronyms

No Data accessible

### 16.3. Important References and data sources

Declarations come out of reference works and the Literature.

| Stoffname  | Typ        | Bezugsquelle(n)   |
|--|------------|---|
| Propan-2-ol<br>CAS-Nr.: 67-63-0<br>EG-Nr.: 200-661-7 | LC50; EC50 | Quelle: Europäische<br>Chemikalienagentur,<br><a href="http://echa.europa.eu/">http://echa.europa.eu/</a> |

### 16.4. classification from mixtures and used scoring method according to regulation (EG) No. 1272/2008 [CLP]

classification according to regulation (EG) No. 1272/2008 [CLP]:

| Gefahrenklassen und Gefahrenkategorien                   | Gefahrenhinweise  | Einstufungsverfahren |
|--|---|----------------------|
| Aerosole ( <i>Aerosol 1</i> )                            | H222; H229: Extrem entzündbares Aerosol.; Behälter steht unter Druck: Kann bei Erwärmung bersten. |                      |
| Schwere Augenschädigung/-reizung ( <i>Eye Irrit. 2</i> ) | H319: Verursacht schwere Augenreizung.  |                      |

### 16.5. text the R-, H- and EUH phrases (Number and full text)

| Gefahrenhinweise |  |
|------------------|--|
| H224             | Flüssigkeit und Dampf extrem entzündbar.                           |
| H225             | Flüssigkeit und Dampf leicht entzündbar.                           |
| H304             | Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein. |
| H315             | Verursacht Hautreizungen.  |
| H319             | Verursacht schwere Augenreizung.                                   |
| H336             | Kann Schläfrigkeit und Benommenheit verursachen.                   |
| H411             | Giftig für Wasserorganismen, mit langfristiger Wirkung.            |

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### Ergänzende Gefahrenmerkmale

|        |   |
|--------|---|
| EUH066 | Wiederholter Kontakt kann zu spröder oder rissiger Haut führen. |
|--------|---|

### 16.6. training notes

No Data accessible

### 16.7. Additional Hints

No Data accessible