

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 1 Mar 2023

Print date: 2 Mar 2023

Version: 1



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## Doyen Spray In QF

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

Doyen Spray In QF

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Biocidal product

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

etol Eberhard Tripp GmbH

Labor

Allerheiligenstr. 12

77728 Oppenau

Germany

Telephone: +49(0)7804/41-0

Telefax: +49(0)7804/41-168

E-mail: info@etol.de

Website: www.etol.de

#### 1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, 24h: +49(0)76119240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories      | Hazard statements                  | Classification procedure |
|---|------------------------------------|--------------------------|
| flammable liquids ( <i>Flam. Liq. 3</i> ) | H226: Flammable liquid and vapour. |                          |

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02  
Flame

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**Signal word:** Warning

### Hazard statements for physical hazards

H226 Flammable liquid and vapour.

### Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

### Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing and eye/face protection.

### Precautionary statements Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

### Additional information:

Es sind zusätzlich die Kennzeichnungsvorschriften der Regulation (EU) No 528/2012 (Biocidal products) über die Bereitstellung auf dem Markt und die Verwendung von Biozidprodukten zu beachten.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]               | Concentration            |
|--|--|--------------------------|
| CAS No.: 64-17-5<br>EC No.: 200-578-6<br>Index No.: 603-002-00-5<br>REACH No.:<br>01-2119457610-43 | <b>ethanol</b><br>Flam. Liq. 2 (H225)<br>Danger  | ≥ 25 - 50<br>weight-%    |
| CAS No.: 78-93-3<br>EC No.: 201-159-0<br>Index No.: 606-002-00-3                                   | <b>butanone</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger EUH066 | ≥ 0.25 - < 1<br>weight-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Immediately rinse with water for several minutes.

#### Following ingestion:

Get medical advice/attention if you feel unwell. Rinse mouth thoroughly with water-----. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

Repeated exposure may cause skin dryness or cracking.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## Doyen Spray In QF

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Water spray jet. Extinguishing powder. alcohol resistant foam . Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:**

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

flammable liquid and vapour

**Hazardous combustion products:**

In case of fire: Gases/vapours, toxic. Carbon dioxide (CO<sub>2</sub>) Carbon monoxide

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water-----.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety. Ventilate affected area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**Other information:**

Dispose of waste according to applicable legislation.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Ground and bond container and receiving equipment.

#### Requirements for storage rooms and vessels:

Vor Frost schützen

#### Hints on storage assembly:

Keep away from: Food and feedingstuffs

**Storage class (TRGS 510, Germany):** 3 - Flammable liquids

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name   | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|--|--|
| TRGS 900 (DE)<br>from 29 Mar 2019    | <b>ethanol</b><br>CAS No.: 64-17-5<br>EC No.: 200-578-6  | ① 200 ppm (380 mg/m <sup>3</sup> )<br>② 800 ppm (1,520 mg/m <sup>3</sup> )<br>⑤ DFG, Y   |
| IOELV (EU)                           | <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 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)                        | <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 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) DFG, EU, H, Y  |

#### 8.1.2. Biological limit values

| Limit value type (country of origin) | Substance name   | Limit value | ① Parameter<br>② Test material<br>③ Time of sampling:<br>④ Remark |
|--------------------------------------|--|-------------|---|
| TRGS 903 (DE)<br>from 9 Nov 2015     | <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | 2 mg/L      | ① 2-butaneon<br>② Urin<br>③ Expositionsende bzw. Schichtende      |

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### 8.1.3. DNEL-/PNEC-values

| Substance name   | DNEL value            | ① DNEL type<br>② Exposure route                             |
|--|-----------------------|---|
| <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | 600 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects |
| <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | 1,161 mg/kg           | ① DNEL worker<br>② Long-term - dermal, systemic effects     |

| Substance name  | PNEC Value | ① PNEC type                   |
|---|------------|-------------------------------|
| <b>ethanol</b><br>CAS No.: 64-17-5<br>EC No.: 200-578-6 | 0.96 mg/L  | ① PNEC aquatic, freshwater    |
| <b>ethanol</b><br>CAS No.: 64-17-5<br>EC No.: 200-578-6 | 580 mg/L   | ① PNEC sewage treatment plant |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Geprüfte Schutzhandschuhe sind zu tragen EN ISO 374 Geeignetes Material:NBR (Nitrilkautschuk)  
Durchbruchzeit: 480 min Bei beabsichtigter Wiederverwendung Handschuhe vor dem Ausziehen reinigen und gut durchlüftet aufbewahren. Durchbruchzeiten und Quelleigenschaften des Materials sind zu berücksichtigen.

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus: A2 P2 . Einzelheiten zu Einsatzvoraussetzungen und maximalen Einsatzkonzentrationen sind der DGUV Regel 112-190 - Benutzung von Atemschutzgeräten zu entnehmen. Atemschutz sollte nur zum Beherrschen des Restrisikos bei Kurzzeittätigkeiten dienen, wenn alle praktisch durchführbaren Schritte zu Gefährdungsreduzierung an der Gefahrquelle eingehalten wurden, z.B. durch Zurückhaltung und/oder lokale Absaugung.

#### 8.2.3. Environmental exposure controls

Discharge into the environment must be avoided.

### 8.3. Additional information

When using do not eat, drink, smoke, sniff. Wash hands thoroughly after handling.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Liquid

**Colour:** colourless

**Odour:** Alcohol

#### Safety relevant basis data

| Parameter     | Value                 | at °C | ① Method<br>② Remark  |
|---------------|-----------------------|-------|-----------------------|
| pH            | 7 - 9                 | 20 °C | ② 50% Wässrige Lösung |
| Melting point | <i>not applicable</i> |       |                       |

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| Parameter                                    | Value                 | at °C   | ① Method<br>② Remark |
|--|-----------------------|---------|----------------------|
| Freezing point                               | -114 °C               |         | ② 1 atm              |
| Initial boiling point and boiling range      | ≈ 78 °C               |         | ② 1013 hPa           |
| Decomposition temperature                    | <i>not determined</i> |         |                      |
| Flash point                                  | 24 °C                 |         |                      |
| Evaporation rate                             | <i>not determined</i> |         |                      |
| Auto-ignition temperature                    | > 363 °C              |         |                      |
| Upper/lower flammability or explosive limits | 2.5 - 13.5 Vol-%      |         |                      |
| Vapour pressure                              | 57.26 hPa             | 19.6 °C |                      |
| Vapour density                               | <i>not determined</i> |         |                      |
| Density                                      | 0.91 - 0.925 g/mL     |         |                      |
| Relative density                             | <i>not determined</i> |         |                      |
| Bulk density                                 | <i>not determined</i> |         |                      |
| Water solubility                             | <i>not determined</i> |         |                      |
| Partition coefficient: n-octanol/water       | <i>not determined</i> |         |                      |
| Dynamic viscosity                            | <i>not determined</i> |         |                      |
| Kinematic viscosity                          | <i>not determined</i> |         |                      |

### 9.2. Other information

#### 9.2.2. Other safety characteristics

VOC-Gehalt: ca. 50%

Brechungsindex: 1,3524 - 1,3624

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions. Flammable liquid and vapour.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidizing agent

### 10.6. Hazardous decomposition products

Unter normalen Lager- und Anwendungsbedingungen sollten keine gefährlichen Zersetzungsprodukte gebildet werden.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

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### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

Based on available data, the classification criteria are not met.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

### Additional information:

No data available

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

No data available

### 12.2. Persistence and degradability

#### Biodegradation:

The solvent is biodegradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

Surface tension : Ethanol 22,31 mN/m (20°C)

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

|            |  |
|------------|--|
| 20 01 29 * | Detergents containing hazardous substances |
|------------|--|

\*: Evidence for disposal must be provided.

##### Waste code packaging

|            |  |
|------------|--|
| 15 01 10 * | packaging containing residues of or contaminated by dangerous substances |
|------------|--|

\*: Evidence for disposal must be provided.

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### Waste treatment options

#### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Recycle according to official regulations.





### 13.2. Additional information

Im Behälter können sich entzündbare Dämpfe bilden.

HP3 - ‚entzündbar‘:

- entzündbarer flüssiger Abfall: flüssiger Abfall mit einem Flammpunkt von unter 60 °C oder Abfälle von Gasöl, Diesel und leichten Heizölen mit einem Flammpunkt von > 55 °C und ≤ 75 °C;
- entzündbare pyrophore Flüssigkeiten und fester Abfall: fester oder flüssiger Abfall, der selbst in kleinen Mengen dazu neigt, sich in Berührung mit Luft innerhalb von fünf Minuten zu entzünden;
- entzündbarer fester Abfall: fester Abfall, der leicht brennbar ist oder durch Reibung Brand verursachen oder fördern kann;
- entzündbarer gasförmiger Abfall: gasförmiger Abfall, der an der Luft bei 20 °C und einem Standarddruck von 101,3 kPa entzündbar ist;
- mit Wasser reagierender Abfall: Abfall, der bei Berührung mit Wasser gefährliche Mengen entzündbarer Gase abgibt;
- sonstiger entzündbarer Abfall: entzündbare Aerosole, entzündbarer selbsterhitzungsfähiger Abfall, entzündbare organische Peroxide und entzündbarer selbstzersetzlicher Abfall.

## SECTION 14: Transport information

| Land transport (ADR/RID)  | Inland waterway craft- (ADN)  | Sea transport (IMDG)  | Air transport (ICAO-TI / IATA-DGR)   |
|---|---|---|--|
| <b>14.1. UN number or ID number</b>   |   |   |  |
| UN 1170   | UN 1170   | UN 1170   | UN 1170  |
| <b>14.2. UN proper shipping name</b>  |   |   |  |
| ETHANOL (ETHYL ALCOHOL)   | ETHANOL (ETHYL ALCOHOL)   | ETHANOL (ETHYL ALCOHOL)   | ETHANOL (ETHYL ALCOHOL)  |
| <b>14.3. Transport hazard class(es)</b>   |   |   |  |
| <br>3  | <br>3  | <br>3  | <br>3                                     |
| <b>14.4. Packing group</b>  |   |   |  |
| III   | III   | III   | III  |
| <b>14.5. Environmental hazards</b>  |   |   |  |
| No  | No  | No  | No   |
| <b>14.6. Special precautions for user</b>   |   |   |  |
| <b>Special Provisions:</b><br>144, 601<br><b>Limited quantity (LQ):</b><br>5L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>Hazard identification number (Kemler No.):</b><br>30<br><b>Classification code-----:</b><br>F1<br><b>Tunnel restriction code-----:</b><br>(D/E) | <b>Special Provisions:</b><br>144, 601<br><b>Limited quantity (LQ):</b><br>5L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>Classification code-----:</b><br>F1 | <b>Special Provisions:</b><br>144, 223<br><b>Limited quantity (LQ):</b><br>5L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>EmS-No.:</b><br>F-E | <b>Special Provisions:</b><br>A3, A58, A180<br><b>Limited quantity (LQ):</b><br>Y344<br><b>Excepted Quantities (EQ):</b><br>E1 |

### 14.7. Maritime transport in bulk according to IMO instruments

No data available



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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU legislation

###### Restrictions on use:

Use restriction according to REACH annex XVII, no.:

Referenzcode-----: 3(a) Anwendbar auf: Doyen Spray In QF; Ethanol ; butaneon

Referenzcode-----: 3(b) Anwendbar auf: Ethanol ; butaneon

Referenzcode-----: 40 Anwendbar auf: Doyen Spray in QF; Ethanol ; butaneon

###### Other regulations (EU):

Regulation (EU) No 528/2012 (Biocidal products) :

Es sind zusätzlich die Kennzeichnungsvorschriften der Verordnung (EU) 528/2012 über die Bereitstellung auf dem Markt und die Verwendung von Biozidprodukten zu beachten. Bei der Werbung für Biozid-Produkte ist folgender Hinweis hinzuzufügen: „Biozidprodukte vorsichtig verwenden. Use biocides safely. Always read the label and product information before use.

###### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 50 weight-%

##### 15.1.2. National regulations

###### [DE] National regulations

###### Restrictions of occupation

Observe employment restrictions according to the Law for the protection of working youth (Protection of Young Persons Act - JArbSchG).

###### Störfallverordnung (12. BImSchV)

###### for substances contained in the product:

Listed in der 12. Ordinance for the implementation of the Federal Immission Control Act (DE)

Anhang I: unter: 1.2.5.3

Mengenschwellen für Betriebsbereiche nach § 1 Abs. 1

Satz 1 :5000000 kg

Satz 2 :50000000 kg

###### Water hazard class

###### WGK:

1 - schwach wassergefährdend

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

#### 15.3. Additional information

Nationale Regeln und Empfehlungen:

TRGS 400: Gefährdungsbeurteilung für Tätigkeiten mit Gefahrstoffen

TRGS 510: Lagerung von Gefahrstoffen in ortsbeweglichen Behältern

TRGS 520: Errichtung und Betrieb von Sammelstellen und Zwischenlagern für Kleinmengen gefährlicher Abfälle

TRGS 900: Arbeitsplatzgrenzwerte

TRGS 903: Biologische Grenzwerte (BGW)

### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories      | Hazard statements                  | Classification procedure |
|---|------------------------------------|--------------------------|
| flammable liquids ( <i>Flam. Liq. 3</i> ) | H226: Flammable liquid and vapour. |                          |

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

| Hazard statements |                                     |
|-------------------|-------------------------------------|
| H225              | Highly flammable liquid and vapour. |
| H319              | Causes serious eye irritation.      |
| H336              | May cause drowsiness or dizziness.  |

| Supplemental hazard information |   |
|---------------------------------|---|
| EUH066                          | Repeated exposure may cause skin dryness or cracking. |

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available