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

#### 1.1. Product identifier

Trade name/designation:

# Doyen SK 10

UFI:

PFDX-D3N4-S65E-U3NM

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

Washing and cleaning products

## 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
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

## 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



Exclamation mark

Signal word: Warning

Hazard statements	for health hazards
H319	Causes serious eye irritation.

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#### Supplemental hazard information: none

Precautionary statements Prevention	
P280	Wear eye/face protection.

<b>Precautionary stat</b>	ements Response
P337 + P313	If eye irritation persists: Get medical advice/attention.

#### 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 Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 15763-76-5 EC No.: 239-854-6 REACH No.: 01-2119489411-37	sodium p-cumenesulphonate Eye Irrit. 2 (H319)  • Warning	1 - 5 weight-%
CAS No.: 111905-53-4	Alcohols, C13-15 branched and linear, butoxylated, ethoxylated Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319)  Warning	1 – 5 weight-%
CAS No.: 5949-29-1 EC No.: 201-069-1 REACH No.: 01-2119457026-42	citric acid monohydrate Eye Irrit. 2 (H319)  Warning	1 – 5 weight-%
CAS No.: 68603-87-2 REACH No.: 01-2119458864-25	C4-C6 dicarboxylic acids Eye Dam. 1 (H318)	1 – 5 weight-%
CAS No.: 3811-73-2 EC No.: 223-296-5 REACH No.: 01-2119493385-28	pyridine-2-thiol 1-oxide, sodium salt Acute Tox. 3 (H311, H331), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), STOT RE 1 (H372), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger M-factor (acute): 100	0 - < 0.02 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. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### 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. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

## Self-protection of the first aider:

Use personal protection equipment.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Water

Extinguishing powder Carbon dioxide (CO2)

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

The product itself does not burn.

#### **Hazardous combustion products:**

Carbon monoxide
Carbon dioxide (CO2)

# 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.

#### **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).

#### For cleaning up:

Water

#### 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).

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#### Fire prevent measures:

No special measures are necessary.

#### Advices on general occupational hygiene

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

# 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

#### 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	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
TRGS 900 (DE) from 7 Jun 2018	citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	<ol> <li>2 mg/m³</li> <li>4 mg/m³</li> <li>(einatembare Fraktion) DFG, Y</li> </ol>
TRGS 900 (DE) from 29 Mar 2019	pyridine-2-thiol 1-oxide, sodium salt CAS No.: 3811-73-2 EC No.: 223-296-5	① 0.2 mg/m³ ② 0.4 mg/m³ ⑤ (einatembare Fraktion; kann über die Haut aufgenommen werden) DFG, H, Y

# 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	<ul><li>① DNEL type</li><li>② Exposure route</li></ul>
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	26.9 mg/m <sup>3</sup>	DNEL worker     Long-term – inhalation, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	136.25 mg/kg bw/day	DNEL worker     Long-term - dermal, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.096 mg/cm <sup>2</sup>	① DNEL worker ② Long-term - dermal, local effects
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	34 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	34 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	5 mg/m³	① DNEL worker ② Acute - inhalation, local effects
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	5 mg/kg	DNEL worker     Long-term - dermal, systemic effects

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Substance name	① DNEL type ② Exposure route
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	 ① DNEL worker ② Acute – dermal, systemic effects

		2 Acute - dermai, systemic effects	
Substance name	PNEC Value	① PNEC type	
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.23 mg/L	① PNEC aquatic, freshwater	
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.023 mg/L	① PNEC aquatic, marine water	
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.862 mg/kg	① PNEC sediment, freshwater	
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.037 mg/kg	① PNEC soil	
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.0862 mg/kg	① PNEC soil, marine water	
citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	0.44 mg/L	① PNEC aquatic, freshwater	
citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	0.044 mg/L	① PNEC aquatic, marine water	
citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	1,000 mg/L	① PNEC sewage treatment plant	
citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	3.46 mg/kg	① PNEC sediment, freshwater	
citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1	34.6 mg/kg	① PNEC sediment, marine water	
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	0.126 mg/L	① PNEC aquatic, freshwater	
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	0.0126 mg/L	① PNEC aquatic, marine water	
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	57.5 mg/L	① PNEC sewage treatment plant	
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	0.484 mg/kg	① PNEC sediment, freshwater	
C4-C6 dicarboxylic acids CAS No.: 68603-87-2	0.0484 mg/kg	① PNEC sediment, marine water	

# 8.2. Exposure controls

# **8.2.1.** Appropriate engineering controls

No data available

# 8.2.2. Personal protection equipment



#### **Eye/face protection:**

Eye glasses with side protection EN 166

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## 8.2.3. Environmental exposure controls

No data available

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Liquid Colour: colourless

**Odour:** odourless

## Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
рН	2.7	20 °C	
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	> 90 °C		
Decomposition temperature	not determined		
Flash point	not applicable		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		
Vapour density	not determined		
Density	≈ 1.04 g/cm³	20 °C	
Relative density	not determined		
Bulk density	not determined		
Water solubility	completely miscible	20 °C	
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	not determined	40 °C	

#### particle characteristics:

not applicable

#### 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product itself does not burn.

# 10.2. Chemical stability

The mixture 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

No further relevant information available.

#### 10.5. Incompatible materials

Alkali (lye), concentrated

# 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

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

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# **SECTION 11: Toxicological information**

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

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

**LD<sub>50</sub> oral:** >7,000 mg/kg (Rat)

**LD<sub>50</sub> dermal:** >2,000 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (vapour): =6.41 mg/L (Rat)

Alcohols, C13-15 branched and linear, butoxylated, ethoxylated CAS No.: 111905-53-4

**LD<sub>50</sub> oral:** >300 - <2,000 mg/kg (Rat)

citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1

**LD<sub>50</sub> oral:** =5,400 mg/kg (Mouse) **LD<sub>50</sub> dermal:** >2,000 mg/kg (Rat)

C4-C6 dicarboxylic acids CAS No.: 68603-87-2

**LD<sub>50</sub> oral:** =6,000 mg/kg (Rat) OECD 401

**LD<sub>50</sub> dermal:** =7,940 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): =7.7 mg/L 4 h (Rat) OECD 403

pyridine-2-thiol 1-oxide, sodium salt CAS No.: 3811-73-2 EC No.: 223-296-5

**LD<sub>50</sub> oral:** ≈1,208 mg/kg

#### 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:

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

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### 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

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

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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

LC<sub>50</sub>: >1,000 mg/L 4 d (fish-----, Oncorhynchus mykiss (Rainbow trout))

EC<sub>50</sub>: >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

ErC<sub>50</sub>: >230 mg/L 4 d (Algae/water plant)

Alcohols, C13-15 branched and linear, butoxylated, ethoxylated CAS No.: 111905-53-4

**LC<sub>50</sub>:** >1 - <10 mg/L 2 d (fish-----, Leuciscus idus (golden orfe))

**NOEC:**  $> 0.1 - < 1 \,\text{mg/L} \,21 \,\text{d}$ 

citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1

**LC<sub>50</sub>:** =440 mg/L 2 d (fish----, Leuciscus idus (golden orfe))

C4-C6 dicarboxylic acids CAS No.: 68603-87-2

**LC<sub>50</sub>:** >147 - <215 mg/L 4 d (fish----, Leuciscus idus (golden orfe))

EC<sub>50</sub>: =88.4 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

**EC<sub>50</sub>:** =41.9 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)

pyridine-2-thiol 1-oxide, sodium salt CAS No.: 3811-73-2 EC No.: 223-296-5

**EC<sub>50</sub>:** =0.46 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)

**EC<sub>50</sub>:** =0.022 mg/L 2 d (crustaceans)

**LC<sub>50</sub>:** =0.00767 mg/L 4 d (fish-----, Danio rerio (zebrafish-----))

NOEC: =0.08 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)

#### 12.2. Persistence and degradability

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

Biodegradation: Yes, rapidly

Alcohols, C13-15 branched and linear, butoxylated, ethoxylated CAS No.: 111905-53-4

Biodegradation: Yes, rapidly

citric acid monohydrate CAS No.: 5949-29-1 EC No.: 201-069-1

**Biodegradation:** Yes, rapidly

C4-C6 dicarboxylic acids CAS No.: 68603-87-2

**Biodegradation:** Yes, rapidly

#### 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

**sodium p-cumenesulphonate** CAS No.: 15763-76-5 EC No.: 239-854-6

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

C4-C6 dicarboxylic acids CAS No.: 68603-87-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

pyridine-2-thiol 1-oxide, sodium salt CAS No.: 3811-73-2 EC No.: 223-296-5

Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

No data available

# 12.7. Other adverse effects

No data available

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

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# **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

06 01 99 wastes not otherwise specified

#### Waste code packaging

15 01 02 Plastic packaging

#### **Waste treatment options**

#### **Appropriate disposal / Product:**

Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft- (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)		
14.1. UN number or	L4.1. UN number or ID number				
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.		
14.2. UN proper ship	ping name				
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.		
14.3. Transport hazard class(es)					
not relevant	not relevant	not relevant	not relevant		
14.4. Packing group					
not relevant	not relevant	not relevant	not relevant		
14.5. Environmental hazards					
not relevant	not relevant	not relevant	not relevant		
14.6. Special precau	14.6. Special precautions for user				
not relevant	not relevant	not relevant	not relevant		

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

No data available

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU legislation

## Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Volatile organic compounds (VOC) content in percent by weight: 0%

Regulation (EC) No. 648/2004 [Detergents regulation]

<5% non-ionic surfactants , polycarboxylates , Preservative : benzisothiazolinone, sodium pyrithione

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

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## 15.1.2. National regulations

# [DE] National regulations

Störfallverordnung (12. BlmschV)

#### for substances contained in the product:

This product is not assigned to a hazard category.

#### Water hazard class

WGK:

2 - obviously hazardous to water

## 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **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

# 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
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.

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

Hazard statements	
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

No data available