

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 1/9



## Doyen RS 120

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

#### \* 1.1. Product identifier

Trade name/designation:

Doyen RS 120

#### \* 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

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
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	

#### 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

orthophosphoric acid; fatty alcohol alkoxyolate

hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 2/9



## Doyen RS 120

### Supplemental hazard information

EUH208	Contains Acetic acid, chloro-,reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol and sodium hydroxide, Acetic acid, 2-chloro-,reaction products with 4,5-dihydro-2-nonyl-1H-imidazole-1-ethanol and sodium hydroxide. May produce an allergic reaction.
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### Precautionary statements Prevention

P280	Wear protective gloves and eye/face protection.
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### Precautionary statements Response

P337 + P313	If eye irritation persists: Get medical advice/attention.
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### 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
<b>CAS No.:</b> 7664-38-2 <b>EC No.:</b> 231-633-2 <b>Index No.:</b> 015-011-00-6 <b>REACH No.:</b> 01-2119485924-24	<b>orthophosphoric acid</b> Skin Corr. 1B <b>Danger</b> H314	10 - 25 weight-%
	<b>fatty alcohol alkoxyate</b> Acute Tox. 4, Aquatic Chronic 3, Eye Irrit. 2 <b>Warning</b> H302-H319-H412	1 - ≤ 5 weight-%
<b>CAS No.:</b> 68608-64-0	<b>Acetic acid, chloro-,reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol and sodium hydroxide</b> Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 <b>Warning</b> H315-H317-H319	0 - ≤ 1 weight-%
<b>CAS No.:</b> 68608-61-7	<b>Acetic acid, 2-chloro-,reaction products with 4,5-dihydro-2-nonyl-1H-imidazole-1-ethanol and sodium hydroxide</b> Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 <b>Warning</b> H315-H317-H319	0 - ≤ 1 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.

# SAFETY DATA SHEET

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

**Revision date:** 30 Nov 2020

**Print date:** 30 Nov 2020

**Version:** 10

Page 3/9



## Doyen RS 120

### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation 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 (CO<sub>2</sub>)

#### Unsuitable extinguishing media:

Strong water jet

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

The product itself does not burn.

#### Hazardous combustion products:

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Phosphorus oxides

### 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.

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 4/9



## Doyen RS 120

### 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:

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:

Please note the expiry date

storage temperature : 5-35°C Keep container tightly closed in a cool, well-ventilated place.

##### Requirements for storage rooms and vessels:

Keep/Store only in original container.

**Storage class:** 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	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	orthophosphoric acid CAS No.: 7664-38-2	① 2 mg/m <sup>3</sup> ② 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m <sup>3</sup> ② 2 mg/m <sup>3</sup>

##### 8.1.2. Biological limit values

No data available

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

Substance name	DNEL value	① DNEL type ② Exposure route
orthophosphoric acid CAS No.: 7664-38-2	2.92 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment



# SAFETY DATA SHEET

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

**Revision date:** 30 Nov 2020

**Print date:** 30 Nov 2020

**Version:** 10

Page 5/9



## Doyen RS 120

### Eye/face protection:

Eye glasses with side protection DIN EN 166

### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) >0,2mm  
Breakthrough time: 480 min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

### 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		at °C	Method	Remark
pH	2.3	20 °C		2 g/l
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 90 - 20 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≈ 1.1 g/cm <sup>3</sup>	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	completely miscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

### 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)

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 6/9



## Doyen RS 120

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
	fatty alcohol alkoxylate	<b>LD<sub>50</sub> oral:</b> >300 - ≤2,000 mg/kg (Rat)

#### 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:

Causes skin irritation.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

Contains Acetic acid, chloro-, reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol and sodium hydroxide, Acetic acid, 2-chloro-, reaction products with 4,5-dihydro-2-nonyl-1H-imidazole-1-ethanol and sodium hydroxide. May produce an allergic reaction.

#### 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

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
7664-38-2	orthophosphoric acid	<b>LC<sub>50</sub>:</b> >3 - <3.25 mg/l 4 d (fish-, <i>Lepomis macrochirus</i> (Bluegill)) <b>NOEC:</b> =100 mg/l 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i> ) <b>EC<sub>50</sub>:</b> >100 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
	fatty alcohol alkoxylate	<b>LC<sub>50</sub>:</b> >1 - ≤10 mg/l 4 d (fish-, <i>Leuciscus idus</i> (g olden orfe)) <b>EC<sub>50</sub>:</b> >1 - ≤10 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) <b>NOEC:</b> >0.1 - ≤1 mg/l 21 d (crustaceans, <i>Daphnia magna</i> (Big water flea))

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 7/9



## Doyen RS 120

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
	fatty alcohol alkoxyolate	Yes, rapidly	
68608-64-0	Acetic acid, chloro-, reaction products with 2-heptyl-4,5-dihydro-1H-imidazole-1-ethanol and sodium hydroxide	Yes, rapidly	
68608-61-7	Acetic acid, 2-chloro-, reaction products with 4,5-dihydro-2-nonyl-1H-imidazole-1-ethanol and sodium hydroxide	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

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

### 12.6. 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.

### 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:

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)
<b>14.1. UN-No.</b>			
UN 1805	UN 1805	UN 1805	UN 1805
<b>14.2. UN proper shipping name</b>			
PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8

# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 8/9



## Doyen RS 120

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.4. Packing group

III	III	III	III
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### 14.5. Environmental hazards

No	No	No	No
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### \* 14.6. Special precautions for user

Special provisions: Limited quantity (LQ): 5L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 80 Classification code-: C1 tunnel restriction code-: (E) Remark:	Special provisions: Limited quantity (LQ): 5L Excepted Quantities (EQ): E1 Classification code-: C1 Remark:	Special provisions: Limited quantity (LQ): 5L Excepted Quantities (EQ): E1 EmS-No.: F-A, S-B Remark:	Special provisions: Excepted Quantities (EQ): Remark:

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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)

15-30% phosphates (Phosphoric acid, Solution)

<5% non-ionic surfactants, amphoteric surfactants

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung

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

This product is not assigned to a hazard category.

##### Water hazard class

##### WGK:

2 - deutlich wassergefährdend

#### 15.2. Chemical Safety Assessment

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



# SAFETY DATA SHEET

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

Revision date: 30 Nov 2020

Print date: 30 Nov 2020

Version: 10

Page 9/9



## Doyen RS 120

### SECTION 16: Other information

#### 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 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]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	

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

Hazard statements	
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version