

# SAFETY DATA SHEET

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

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## Actoton® SN

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

#### 1.1. Product identifier

Trade name/designation:

Actoton® SN

Article No.:

04.1501.a

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

Use of the substance/mixture:

Instrument Care

Instrument Care

Relevant identified uses:

**Sector of uses [SU]**

**SU 20:** Health services

**Product Categories [PC]**

**PC 35:** Washing and cleaning products

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

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

**ACTO GmbH**

Quality Management

Büchnerstr. 11

38118 Braunschweig

Germany

**Telephone:** (+49) (0) 531-239 508-0

**Telefax:** (+49) (0) 531-239 508-11

**E-mail:** info@actogmbh.com

**Website:** http://www.actogmbh.com

**E-mail (competent person):** info@actogmbh.com

Poison Control Center-Nord (GIZ-Nord) University Medical Center Göttingen Robert-Koch-Str. 40, 37075

Göttingen Emergency number for Citizens: +49 (0) 551-19 24 0 Consulting physician: +49 (0) 551-38 31

80 E-mail: giznord@giz-nord.de Web-Page: http://www.giz-nord.de

#### 1.4. Emergency telephone number

Name: Erdi Günher Profession: Chemist Certificate No.: GBF-A-0-2859 Validity: 06.08.2021 Telephone: +90 5358654635 E-mail (competent person): erdi.gunher@actopharma.com, 24h: GIZ-Nord: +49-551-19 24 0, Safety Officer: +49-531-2395080; +49-172-8560648 (Only available during office hours.)

### 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 (Skin Corr. 1C)	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

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### 2.2. Label elements

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

Hazard pictograms:



**GHS05**  
Corrosion

Signal word: Danger

#### hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Supplemental Hazard information (EU): -

#### Precautionary statements

P102	Keep out of reach of children.
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#### Precautionary statements Prevention

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements Response

P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.

#### Precautionary statements Disposal

P501	Dispose of contents/container to in accordance with national regulations..
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Special rules for supplemental label elements for certain mixtures:

15.0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

15.0 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

### 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.: 7664-38-2 EC No.: 231-633-2	orthophosphoric acid Skin Corr. 1B <b>Danger</b> H314	9 - ≤ 15 Wt %

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

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### 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 place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

##### Following inhalation:

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

In case of irregular breathing or respiratory arrest provide artificial respiration. Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact:

In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Get immediate medical advice/attention.

##### After eye contact:

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

##### After ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect). Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention. Rinse mouth. Get medical advice/attention if you feel unwell.

##### 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

Acid Treat symptomatically.

You can refer to data sources in section 16 to find detailed toxicity information of each component. Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Foam Water spray

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

The product itself does not burn.

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. 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.

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### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

Avoid contact with eyes and skin. Wear personal protection equipment. Remove persons to safety.

**Protective equipment:**

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

**Emergency procedures:**

Provide eye shower and label its location conspicuously

##### 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 (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

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

Treat the recovered material as prescribed in the section on waste disposal. Subsequently wash off with: 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:**

Wash hands before breaks and after work. Take off contaminated clothing. Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

No special measures are necessary.

**Environmental precautions:**

Avoid release of large amounts to the environment.

**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.

**Requirements for storage rooms and vessels:**

Keep/Store only in original container. Floors should be impervious, resistant to liquids and easy to clean.

Material, acid-resistant

**Hints on storage assembly:**

Do not store together with: Oxidising agent

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 8B - Non-combustible corrosive substances

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### 7.3. Specific end use(s)

#### Recommendation:

Some of the uses of the product mentioned in Section 1.2. No other specific uses are stipulated.

#### Industrial sector specific solutions:

Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

## 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

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

#### 8.2.2. Personal protection equipment



#### Eye/face protection:

Eye glasses Eye glasses with side protection DIN EN 166

#### Skin protection:

Wash hands before breaks and after work. Thorough skin-cleansing after handling the product. Apply skin care products after work. Hand protection: EN ISO 374 Tested protective gloves must be worn. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable material: Breakthrough time (maximum wearing time) 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.

#### Respiratory protection:

Use only in well-ventilated areas. With correct and proper use, and under normal conditions, breathing protection is not required.

#### Other protection measures:

General health and safety measures: When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash contaminated clothing prior to re-use.

#### 8.2.3. Environmental exposure controls

See chapter 7. No additional measures necessary.

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### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state: Liquid

Colour: colourless

Odour: characteristic

##### Safety relevant basis data

parameter		at °C	Method	Remark
pH	≥ 1 - ≤ 3	20 °C	1%	
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</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	≥ 1.03 - ≤ 1.1 g/ml	20 °C		
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>	40 °C		

#### 9.2. Other information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

There is no dangerous reactions known when use as prescribed and with proper storage. Reacts with : Alkali (lye), Oxidising agent The product itself does not burn.

#### 10.2. Chemical stability

There is no stability problems observed when use as prescribed and with proper storage.

#### 10.3. Possibility of hazardous reactions

Response: Oxidising agent, strong, Alkali (lye)

#### 10.4. Conditions to avoid

Heating causes rise in pressure with risk of bursting.

#### 10.5. Incompatible materials

Alkali (lye), Oxidising agent, strong

#### 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

#### Further information

There is no dangerous reactions known when use as prescribed and with proper storage.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7664-38-2	orthophosphoric acid	<b>LD<sub>50</sub> oral:</b> 1,530 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> 2,740 mg/kg (Rabbit)

**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 severe burns. Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**

Causes serious eye damage.

**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:**

The product has not been tested. The toxicology data of the ingredients listed were supplied by manufacturers of raw materials. No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Assessment/classification:**

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

#### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7664-38-2	orthophosphoric acid	Yes, rapidly	

**Biodegradation:**

Readily biodegradable (according to OECD criteria). The product has not been tested. The statement is derived from the properties of the single components.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7664-38-2	orthophosphoric acid	—

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal.

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

##### Waste code product:

07 06 99	Wastes not otherwise specified
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##### Waste code packaging:

15 01 10 *	packaging containing residues of or contaminated by dangerous substances
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\*: 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:

Consult the appropriate local waste disposal expert about waste disposal.

#### Other disposal recommendations:

Dispose waste in accordance with national regulations!

## 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
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
No	No	No	No



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> <b>Limited quantity (LQ):</b> E1: 5L <b>Excepted Quantities:</b> <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C1 <b>tunnel restriction code:</b> (E) <b>Remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> E1: 5L <b>Excepted Quantities:</b> <b>Classification code:</b> - <b>Remark:</b>	<b>Special provisions:</b> 223 <b>Limited quantity (LQ):</b> E1: 5L <b>Excepted Quantities:</b> <b>EmS-No.:</b> F-A; S-B <b>Remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> E1: Y841-1 L, 852-5 L, 856-60 L <b>Excepted Quantities:</b> <b>Remark:</b> ERG: 8L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

##### Authorisations:

Class I Medical product according to Medical Devices Directive 93/42/EEC with amendment 2007/47/EC.

##### Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Classification according to Regulation (EC) No 1272/2008 [CLP], according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 453/2010). Classification according to Directive 67/548/EEC or 1999/45/EC Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### 15.1.2. National regulations

##### [DE] National regulations

##### Restrictions of occupation

5 MuSchRiV. 22 JArbSchG. 4 MuSchRiV.

##### Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

##### Störfallverordnung

##### Remark:

not applicable

##### Technische Anleitung Luft (TA-Luft)

##### Remark:

Total dust emission value may not be exceeded. (see No. 5.2.1).

##### Water hazard class (WGK)

##### WGK:

1 - Mildly water-hazardous

##### Source:

VwVwS Anh. 2, Nr. (2005)

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### Other regulations, restrictions and prohibition regulations

TRGS 401 "Risks resulting from skin contact - identification, assessment, measures"

TRGS 510 "Storage of hazardous substances in non-stationary containers"

BGI 595 "Instructions M 004: Irritating substances / corrosive substances"

### 15.2. Chemical Safety Assessment

For this mixture a chemical safety assessment is 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

You can refer to data sources below to find detailed toxicity information of each component.

<http://www.baua.de/>

<http://gestis.itrust.de/>

<http://www.gefahrstoff-info.de/>

<http://esis.jrc.ec.europa.eu/>

<http://www.echemportal.org/>

<http://www.gischem.de>

### 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 (Skin Corr. 1C)	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	

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

Hazard statements	
H314	Causes severe skin burns and eye damage.

### 16.6. Training advice

Do not handle until all safety precautions have been read and understood.

### 16.7. Additional information

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