

# Safety data sheet

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Date / Revised: 15.08.2022

Version: 2.0

Date previous version: 20.12.2018

Previous version: 1.0

Date / First version: 20.12.2018

Product: **Aktuan 3S**

(ID no. 30729361/SDS\_CPA\_EU/EN)

Date of print 12.12.2025

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

### 1.1. Product identifier

**Aktuan 3S**

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

Relevant identified uses: crop protection product

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| Acute Tox. 4 (Inhalation - dust) | H332 Harmful if inhaled.                                   |
| Eye Dam./Irrit. 1                | H318 Causes serious eye damage.                            |
| Skin Sens. 1                     | H317 May cause an allergic skin reaction.                  |
| Carc. 2                          | H351 Suspected of causing cancer.                          |
| Aquatic Acute 1                  | H400 Very toxic to aquatic life.                           |
| Aquatic Chronic 1                | H410 Very toxic to aquatic life with long lasting effects. |

For the classifications not written out in full in this section the full text can be found in section 16.

### 2.2. Label elements

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

Pictogram:



Signal Word:

Danger

Hazard Statement:

|        |                                                                                           |
|--------|-------------------------------------------------------------------------------------------|
| H318   | Causes serious eye damage.                                                                |
| H332   | Harmful if inhaled.                                                                       |
| H317   | May cause an allergic skin reaction.                                                      |
| H351   | Suspected of causing cancer.                                                              |
| H400   | Very toxic to aquatic life.                                                               |
| H410   | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Precautionary Statement:

|      |                                                                       |
|------|-----------------------------------------------------------------------|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children.                                        |
| P103 | Read carefully and follow all instructions.                           |

Precautionary Statements (Prevention):

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| P280 | Wear protective gloves/clothing/eye protection.                           |
| P271 | Use only outdoors or in a well-ventilated area.                           |
| P201 | Obtain special instructions before use.                                   |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                         |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P272 | Contaminated work clothing should not be allowed out of the workplace.    |

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#### Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or physician.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.  
 P391 Collect spillage.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Precautionary Statements (Storage):

P405 Store locked up.

#### Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: folpet (ISO); N-(trichloromethylthio)phthalimide

### 2.3. Other hazards

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

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

crop protection product

Regulatory relevant ingredients

| folpet (ISO)

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|                                                                                                    |                                       |
|----------------------------------------------------------------------------------------------------|---------------------------------------|
| Content (W/W): 50 %                                                                                | Acute Tox. 4 (Inhalation - dust)      |
| CAS Number: 133-07-3                                                                               | Eye Dam./Irrit. 2                     |
| EC-Number: 205-088-6                                                                               | Skin Sens. 1                          |
| INDEX-Number: 613-045-00-1                                                                         | Carc. 2                               |
|                                                                                                    | Aquatic Acute 1                       |
|                                                                                                    | H319, H332, H317, H351, H400          |
| methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-D-alaninate                                         |                                       |
| Content (W/W): 3.95 %                                                                              | Aquatic Chronic 2                     |
| CAS Number: 98243-83-5                                                                             | H411                                  |
| Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt |                                       |
| Content (W/W): < 10 %                                                                              | Aquatic Chronic 3                     |
| CAS Number: 119432-41-6                                                                            | H412                                  |
| Distyryl phenyl ether sulfate, ammonium salt                                                       |                                       |
| Content (W/W): < 10 %                                                                              | Eye Dam./Irrit. 1                     |
| CAS Number: 59891-11-1                                                                             | Aquatic Chronic 2                     |
| REACH registration number: 01-2119969954-16                                                        | H318, H411                            |
| Sodium diisopropylnaphthalenesulphonate                                                            |                                       |
| Content (W/W): < 10 %                                                                              | Acute Tox. 4 (Inhalation - dust)      |
| CAS Number: 1322-93-6                                                                              | Acute Tox. 4 (oral)                   |
| EC-Number: 215-343-3                                                                               | Eye Dam./Irrit. 1                     |
|                                                                                                    | STOT SE 3 (irr. to respiratory syst.) |
|                                                                                                    | Aquatic Chronic 3                     |
|                                                                                                    | H318, H335, H302 + H332, H412         |

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

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Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## **SECTION 5: Fire-Fighting Measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

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

Endangering substances: carbon monoxide, Carbon dioxide, hydrogen cyanide, hydrogen chloride, nitrogen oxides

Advice: The substances/groups of substances mentioned can be released in case of fire.

### **5.3. Advice for fire-fighters**

Special protective equipment:

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

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

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

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### 6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Contain with dust binding material and dispose of.

For large amounts: Sweep/shovel up.

Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

---

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

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

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

133-07-3: folpet (ISO)

### 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## SECTION 9: Physical and Chemical Properties

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

|                  |                                       |
|------------------|---------------------------------------|
| State of matter: | solid                                 |
| Form:            | solid                                 |
| Colour:          | brownish                              |
| Odour:           | odourless                             |
| Odour threshold: | not applicable, odour not perceivable |
| Melting point:   | The product has not been tested.      |
| Boiling point:   | The product has not been tested.      |

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|                                                                  |                                                                                                                                                                                                        |
|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability:                                                    | Based on the structure or composition there is no indication of flammability                                                                                                                           |
| Lower explosion limit:                                           | 190 g/m <sup>3</sup>                                                                                                                                                                                   |
| Upper explosion limit:                                           | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Flash point:                                                     | not applicable, the product is a solid                                                                                                                                                                 |
| Thermal decomposition:                                           | No decomposition if stored and handled as prescribed/indicated.                                                                                                                                        |
| pH value:                                                        | approx. 7 - 8<br>(CIPAC standard water D, 1 %(m), 20 °C)                                                                                                                                               |
| Viscosity, dynamic:                                              | not applicable, the product is a solid                                                                                                                                                                 |
| Solubility in water:                                             | dispersible                                                                                                                                                                                            |
| Partitioning coefficient n-octanol/water (log K <sub>ow</sub> ): | not applicable                                                                                                                                                                                         |
| Vapour pressure:                                                 | not applicable                                                                                                                                                                                         |
| Relative vapour density (air):                                   | not applicable                                                                                                                                                                                         |

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

#### Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

#### Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

### Other safety characteristics

Bulk density: 600 - 700 kg/m<sup>3</sup>

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

### 10.5. Incompatible materials

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

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

#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Of low toxicity after single ingestion. Of low toxicity after short-term skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg

LD50 rat (dermal): > 2,000 mg/kg

*Information on: methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-D-alaninate*

*Experimental/calculated data:*

*LC50 rat (by inhalation): 4.2 mg/l 4 h*

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| *Highest concentration technically achievable.*

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide*

*Experimental/calculated data:*

*LC50 rat (by inhalation): > 2 mg/l 4 h*

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#### Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant

Serious eye damage/irritation

: Irritant.

#### Respiratory/Skin sensitization

Assessment of sensitization:

The product has not been tested. The statement has been derived from the properties of the individual components. Sensitization after skin contact possible.

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide*

*Experimental/calculated data:*

| *Guinea pig maximization test guinea pig: sensitizing (OECD Guideline 406)*

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#### Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide*

*Assessment of mutagenicity:*

*The substance was mutagenic in various bacterial test systems; however, a mutagenic effect could not be confirmed in mammalian cell culture. Based on the structure, there is a suspicion of a mutagenic effect.*

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#### Carcinogenicity

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#### Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide*

*Assessment of carcinogenicity:*

*Limited evidence of a carcinogenic effect.*

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#### Reproductive toxicity

##### Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

##### Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### Specific target organ toxicity (single exposure)

##### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

##### Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

#### Aspiration hazard

The product has not been tested. The statement has been derived from the properties of the individual components.

No aspiration hazard expected.

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#### Interactive effects

No data available.

### **11.2. Information on other hazards**

#### Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### Other information

Other relevant toxicity information

Misuse can be harmful to health.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) 0.38 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203)

Aquatic invertebrates:

EC50 (48 h) 3.67 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Aquatic plants:

EC50 (72 h) 32.2 mg/l (growth rate), algae (OECD Guideline 201)

### **12.2. Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-D-alaninate*

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*Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable (by OECD criteria).*

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
Biodegradable.*  
-----

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: methyl N-(2,6-dimethylphenyl)-N-(phenylacetyl)-D-alaninate  
Bioaccumulation potential:*

*Bioconcentration factor (BCF): 57, Fish*

*Information on: folpet (ISO); N-(trichloromethylthio)phthalimide  
Bioaccumulation potential:*

*Bioconcentration factor (BCF): 56 (OECD Guideline 305 E)*  
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### 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: not determined

### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

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The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.8. Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: UN3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

RID

UN number or ID number: UN3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

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user:

### **Inland waterway transport**

ADN

UN number or ID number: UN3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

### **Transport in inland waterway vessel**

Not evaluated

### **Sea transport**

IMDG

UN number or ID number: UN 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Marine pollutant: YES

Special precautions for user: EmS: F-A; S-F

### **Air transport**

IATA/ICAO

UN number or ID number: UN 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (FOLPET)

Transport hazard class(es): 9, EHSM

Packing group: III

Environmental hazards: yes

Special precautions for user: None known

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Date / Revised: 15.08.2022

Version: 2.0

Date previous version: 20.12.2018

Previous version: 1.0

Date / First version: 20.12.2018

Product: **Aktuan 3S**

(ID no. 30729361/SDS\_CPA\_EU/EN)

Date of print 12.12.2025

user:

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

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

Maritime transport in bulk is not intended.

#### **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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## **SECTION 15: Regulatory Information**

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

#### **Prohibitions, Restrictions and Authorizations**

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 75

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Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
List entry in regulation: E1

To avoid risks to man and the environment, comply with the instructions for use.

## 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| Acute Tox.      | Acute toxicity                                                                            |
| Eye Dam./Irrit. | Serious eye damage/eye irritation                                                         |
| Skin Sens.      | Skin sensitization                                                                        |
| Carc.           | Carcinogenicity                                                                           |
| Aquatic Acute   | Hazardous to the aquatic environment - acute                                              |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic                                            |
| STOT SE         | Specific target organ toxicity — single exposure                                          |
| H318            | Causes serious eye damage.                                                                |
| H332            | Harmful if inhaled.                                                                       |
| H317            | May cause an allergic skin reaction.                                                      |
| H351            | Suspected of causing cancer.                                                              |
| H400            | Very toxic to aquatic life.                                                               |
| H410            | Very toxic to aquatic life with long lasting effects.                                     |
| EUH401          | To avoid risks to human health and the environment, comply with the instructions for use. |
| H319            | Causes serious eye irritation.                                                            |
| H411            | Toxic to aquatic life with long lasting effects.                                          |
| H412            | Harmful to aquatic life with long lasting effects.                                        |
| H335            | May cause respiratory irritation.                                                         |
| H302 + H332     | Harmful if swallowed or if inhaled                                                        |

### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code.

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ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.