Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# ROTOSTAR Aqua FPG 74013 Pale Gold

| Version 5.0 | Revision Date 15.08.2023 | Print Date 16.08.2023 |
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|             |                          |                       |

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

### **1.1 Product identifier**

| Trade name      | : | ROTOSTAR Aqua FPG 74013 Pale Gold |
|-----------------|---|-----------------------------------|
| Material number | : | 025853QQ0                         |

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

This information is not available.

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

| Company                    | : ECKART GmbH            |
|----------------------------|--------------------------|
|                            | Guentersthal 4           |
|                            | 91235 Hartenstein        |
| Telephone                  | : +499152770             |
| Telefax                    | : +499152777008          |
| E-mail address             | : msds.eckart@altana.com |
| Responsible/issuing person |                          |

#### 1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

### **SECTION 2: Hazards identification**

#### **GHS Classification**

: Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Short-term (acute) aquatic hazard, Category 1, H400

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|                          | Long-term (chronic  | ) aquatic hazard, Ca   | ategory 1, H410  |
| GHS-Labelling            |   |  |  |
| Symbol(s)                |   | 2  |  |
| Signal word              | : Warning   |  |  |
| Hazard statements        | : H302: Harmful if sv<br>H319: Causes serie<br>H410: Very toxic to  |  | g lasting effects.   |
| Precautionary statements | <ul> <li>P270 Do not eat,</li> <li>P273 Avoid relea</li> <li>P280 Wear eye p</li> <li>Response:</li> <li>P301 + P317 + P33</li> <li>Rinse mouth.</li> <li>P305 + P351 + P33</li> <li>water for several m</li> <li>and easy to do. Co</li> <li>P337 + P317 If e</li> <li>P391 Collect spil</li> <li>Disposal:</li> </ul> | <ul> <li>se to the environme<br/>protection/ face prote</li> <li>IF SWALLOW</li> <li>IF IN EYES: R</li> <li>inutes. Remove conntinue rinsing.</li> <li>eye irritation persists</li> <li>lage.</li> </ul> | en using this product.<br>ent.<br>ection.<br>ED: Get medical help.<br>inse cautiously with<br>ntact lenses, if present |
| Hazardous components w   | ch must be listed on  | the label  |  |
| Identification<br>copper | CAS-N<br>7440-5   |  |  |

**C**ECKART

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### **SECTION 3: Composition/information on ingredients**

:

Substance No.

### Hazardous components

| Chemical name    | CAS-No.<br>EINECS-No.  | Classification and labelling  | Concentration[%] |
|------------------|------------------------|---|------------------|
| copper           | 7440-50-8<br>231-159-6 | Acute Tox.;4;H302<br>Eye<br>Dam./Irrit.;2A;H319<br>Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410  | 25 - 50          |
| zinc             | 7440-66-6<br>231-175-3 | Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410   | 2,5 - 10         |
| propane-1,2-diol | 57-55-6<br>200-338-0   | Acute Tox.;5;H313   | 1 - 10           |
| octadecylamine   | 124-30-1<br>204-695-3  | Skin Corr./Irrit.;2;H315<br>Eye Dam./Irrit.;1;H318<br>STOT RE;2;H373<br>Asp. Tox.;1;H304<br>Aquatic Acute;1;H400<br>Aquatic<br>Chronic;1;H410 | 0,25 - 1         |

For the full text of the H-Statements mentioned in this Section, see Section 16.

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### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

| General advice          | : Move the victim to fresh air.                                       |
|-------------------------|---|
|                         | Move out of dangerous area.   |
|                         | Show this safety data sheet to the doctor in attendance.              |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice. |
|                         | If symptoms persist, call a physician.                                |
| In case of skin contact | : Wash off immediately with soap and plenty of water.                 |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.                      |
| ·                       | Remove contact lenses.  |
|                         | Keep eye wide open while rinsing.                                     |
| If swallowed            | : Keep respiratory tract clear.                                       |
|                         | Do not give milk or alcoholic beverages.                              |
|                         | Never give anything by mouth to an unconscious person.                |
|                         | If symptoms persist, call a physician.                                |
|                         |   |

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

This information is not available.

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

This information is not available.

### **SECTION 5: Firefighting measures**

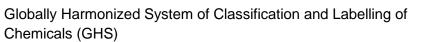
### 5.1 Extinguishing media

| Suitable extinguishing media   | : | Special powder against metal fire, Dry sand, ABC powder |
|--------------------------------|---|---|
| Unsuitable extinguishing media | : | Water, High volume water jet, Carbon dioxide (CO2)      |

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

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|             |   |   |  |                       |  |
|             | Specific hazards during firefighting            | : | Do not allow run-off from fire fighting to ente  | er drains or water    |  |
| 5.3         | Advice for firefighters                         |   |  |                       |  |
|             | Special protective equipment : for firefighters |   | Wear self-contained breathing apparatus fo necessary.  | r firefighting if     |  |
|             | Further information                             | : | Standard procedure for chemical fires.   |                       |  |
|             |   |   | Collect contaminated fire extinguishing wate<br>must not be discharged into drains. Fire res<br>contaminated fire extinguishing water must<br>accordance with local regulations. | idues and             |  |

### **SECTION 6: Accidental release measures**

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

| Personal precautions             | : Evacuate personnel to safe are<br>Ensure adequate ventilation.<br>Use personal protective equipr                               |                             |
|----------------------------------|--|-----------------------------|
| 6.2 Environmental precautions    |  |                             |
| Environmental precautions        | : The product should not be allo courses or the soil.  | wed to enter drains, water  |
|                                  | Prevent product from entering<br>Prevent further leakage or spill<br>If the product contaminates rive<br>respective authorities. | age if safe to do so.       |
| 6.3 Methods and materials for co | ontainment and cleaning up   |                             |
| Methods for cleaning up          | : Use mechanical handling equip<br>Pick up and transfer to properly<br>Do not flush with water.                                  |                             |
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Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

7.2

| Advice on safe handling                                      | : | Do not breathe vapours/dust. Avoid contact with skin and<br>eyes. For personal protection see section 8. Smoking, eating<br>and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national<br>regulations. |
|--|---|--|
| Advice on protection against fire and explosion              | : | Keep away from heat and sources of ignition. No smoking.   |
|  |   | Normal measures for preventive fire protection.  |
| Hygiene measures   | : | General industrial hygiene practice.   |
|  |   | When using do not eat or drink. When using do not smoke.<br>Wash hands before breaks and at the end of workday.  |
| Conditions for safe storage, including any incompatibilities |   |  |

#### Requirements for storage areas and containers : Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed in a dry and well-ventilated

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|   |  |                         |
|   | place. Containers which are opened m<br>resealed and kept upright to prevent le<br>installations / working materials must c<br>technological safety standards. | akage. Electrical       |
| Further information on storage conditions | : Protect from humidity and water.   |                         |
| Advice on common storage                  | : Keep away from oxidizing agents, stro<br>strongly acid materials in order to avoid<br>Do not store together with oxidizing an                                | d exothermic reactions. |
| Dampness                                  | : Keep in a dry, cool and well-ventilated  | place.                  |
| Other data                                | : No decomposition if stored and applied   | d as directed.          |

### 7.3 Specific end use(s)

This information is not available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Germany:

| Components                              | CAS-No.   | Value type<br>(Form of<br>exposure)  | Control parameters | Update        | Basis       |
|---|-----------|--|--------------------|---------------|-------------|
| copper                                  | 7440-50-8 | AGW (inhalable fraction)   | 1 mg/m3            |               | DE TRGS 900 |
| zinc                                    | 7440-66-6 | AGW (Inhalable<br>fraction)  | 10 mg/m3           | 2021-07-02    | DE TRGS 900 |
| Peak-limit: excursion factor (category) |           | 2;(II)   |                    |               |             |
| Further informa                         | ation     | When there is compliance with the OEL and biological tolerand values, there is no risk of harming the unborn child |                    | cal tolerance |             |

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|             |                          |                       |

| zinc                               | 7440-66-6 | AGW (Alveolate fraction)   | 1,25 mg/m3 | 2021-07-02    | DE TRGS 900 |
|------------------------------------|-----------|--|------------|---------------|-------------|
| Peak-limit: exc<br>factor (categor |           | 2;(II)   |            |               |             |
| Further informa                    | ation     | When there is compliance with the OEL and biological to values, there is no risk of harming the unborn child |            | cal tolerance |             |

### 8.2 Exposure controls

| Personal protective equipm | nent |  |   |
|----------------------------|------|--|---|
| Eye protection             | :    | Safety glasses   |   |
|                            | :    | Wear face-shield and protective suit for abnormal processing problems.   |   |
| Hand protection            |      |  |   |
| Material                   | :    | Solvent-resistant gloves (butyl-r  | ubber)  |
| Remarks                    | :    | Take note of the information given by the producer concernin<br>permeability and break through times, and of special<br>workplace conditions (mechanical strain, duration of contact). |   |
|                            |      | The exact break through time caprotective glove producer and the   |   |
|                            |      | Please observe the instructions<br>breakthrough time which are pro-<br>gloves. Also take into considera<br>conditions under which the pro-<br>danger of cuts, abrasion, and the        | bvided by the supplier of the<br>tion the specific local<br>duct is used, such as the |
|                            |      | Recommended preventive skin  | protection  |
|                            |      | Skin should be washed after co   | ntact.  |
|                            |      | The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |   |
|                            | :    | The suitability for a specific wor with the producers of the protect   |   |
| Skin and body protection   | :    | Choose body protection according to the amount and concentration of the dangerous substance at the work place.   |   |
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|                             |  |                       |
| Respiratory protection      | : Use suitable breathing protection if workpla requires.   | ace concentration     |
|                             | Equipment should conform to EN 14387   |                       |
| Environmental exposure cont | trols  |                       |
| General advice              | <ul> <li>The product should not be allowed to enter<br/>courses or the soil.</li> <li>Prevent product from entering drains.<br/>Prevent further leakage or spillage if safe t</li> </ul> | o do so.              |
|                             | If the product contaminates rivers and lake respective authorities.  | s or drains inform    |

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

### 9.1 Information on basic physical and chemical properties

| Appearance                  | : liquid            |                             |
|-----------------------------|---------------------|-----------------------------|
| Appearance                  |                     |                             |
| Colour                      | : gold              |                             |
| Odour                       | : characteristic    |                             |
| рН                          | : 6 - 8, 100 %      |                             |
| Melting point/range         | : Not applicable    |                             |
| Boiling point/boiling range | : > 100 °C          |                             |
| Flash point                 | : >100 °C           |                             |
| Bulk density                | : No data available |                             |
| Flammability (solid, gas)   | : No data available |                             |
| Auto-flammability           | : No data available |                             |
| Upper explosion limit       | : No data available |                             |
| Lower explosion limit       | : No data available |                             |
| Vapour pressure             | : No data available |                             |
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| Density                                | : 1,4 - 1,6 g/cm3   |
|--|---------------------|
| Solubility(ies)                        |                     |
| Water solubility                       | : insoluble         |
| Miscibility with water                 | : partly miscible   |
| Solubility in other solvents           | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Ignition temperature                   | : No data available |
| Thermal decomposition                  | : No data available |
| Viscosity, dynamic                     | : No data available |
| Viscosity, kinematic                   | : No data available |
| Flow time                              | : No data available |

### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

| Hazardous reactions | : | Stable under recommended storage conditions. |
|---------------------|---|--|
|---------------------|---|--|

No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

| Conditions to avoid | : Do not allow evaporation to dryness. |                             |  |
|---------------------|--|-----------------------------|--|
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|                                     |  |                       |
|                                     | No data available  |                       |
| 10.5 Incompatible materials         |  |                       |
| Materials to avoid                  | : No data available  |                       |
| 10.6 Hazardous decomposition        | products   |                       |
| Hazardous decomposition<br>products | :  |                       |
| Other information                   | : Carbon monoxide, carbon dioxide an hydrocarbons (smoke). | d unburned            |
| SECTION 11: Toxicological i         | nformation   |                       |
| 11.1 Information on toxicologic     | al effects   |                       |
| Acute toxicity                      |  |                       |

### **Components:**

| CO | nr | b  | r |  |
|----|----|----|---|--|
| CO | ЧΝ | 76 |   |  |

| Acute oral toxicity | : The component/mixture is moderately toxic after single |
|---------------------|--|
|                     | ingestion.   |

### propane-1,2-diol :

| Acute oral toxicity   | : LD50 Rat: >22 000 mg/kg    |
|-----------------------|------------------------------|
| Acute dermal toxicity | : LD50 Rabbit: > 2 000 mg/kg |

### Skin corrosion/irritation

### Product

May cause skin irritation in susceptible persons.

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### Serious eye damage/eye irritation

### Product

Eye irritation

### Respiratory or skin sensitisation

No data available

### Carcinogenicity

No data available

#### Toxicity to reproduction/fertility

No data available

### Reprod.Tox./Development/Teratogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration toxicity

No data available

#### **Further information**

### Product

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No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

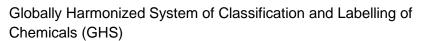
| <u>Components:</u><br>copper (7440-50-8) :   |   |
|--|---|
| M-Factor<br>Ecotoxicology Assessment   | : 10  |
| Short-term (acute) aquatic<br>hazard   | : Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic<br>hazard<br><b>zinc (7440-66-6) :</b>                             | : Very toxic to aquatic life with long lasting effects. |
| Ecotoxicology Assessment   |   |
| Short-term (acute) aquatic<br>hazard   | : Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic<br>hazard  | : Very toxic to aquatic life with long lasting effects. |
| propane-1,2-diol (57-55-6) :   |   |
| Toxicity to daphnia and other aquatic invertebrates <b>octadecylamine</b> ( <b>124-30-1) :</b> | : (Daphnia magna (Water flea)): > 10 000 mg/l           |
| M-Factor<br>Ecotoxicology Assessment   | : 10  |
| Short-term (acute) aquatic<br>hazard   | : Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic<br>hazard  | : Very toxic to aquatic life with long lasting effects. |
| 2 Paraistance and degradabilit   | M.  |

### 12.2 Persistence and degradability

No data available

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### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

### Product:

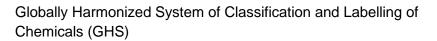
| Additional ecological | : | An environmental hazard cannot be excluded in the event of       |
|-----------------------|---|--|
| information           |   | unprofessional handling or disposal., Very toxic to aquatic life |
|                       |   | with long lasting effects.                                       |

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

| Product<br>Contaminated packaging | <ul> <li>The product should not be allow courses or the soil.</li> <li>Do not contaminate ponds, wate chemical or used container.</li> <li>Send to a licensed waste manage In accordance with local and nat</li> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> </ul> | erways or ditches with gement company. |
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Do not re-use empty containers. In accordance with local and national regulations.

### **SECTION 14: Transport information**

| : 3082  |
|---|
|   |
|   |
|   |
|   |
| : 3082  |
| : 3082  |
|   |
| : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| (Copper metal powder)                                 |
|   |
|   |
|   |
|   |
| : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| (,Copper metal powder)                                |
| : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| (Copper metal powder)                                 |
|   |

### 14.3 Transport hazard class





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|  |                          |                       |
| ADR                                      | : 9                      |                       |
| TDG                                      |                          |                       |
| Not dangerous goods                      |                          |                       |
| CFR                                      |                          |                       |
| Not dangerous goods                      |                          |                       |
| IMDG                                     | : 9                      |                       |
| ΙΑΤΑ                                     | : 9                      |                       |
| 14.4 Packing group                       |                          |                       |
| ADR                                      |                          |                       |
| Packaging group                          | : 111                    |                       |
| Classification Code                      | : M6                     |                       |
| Hazard Identification Number             | : 90                     |                       |
| Labels                                   | : 9                      |                       |
| Tunnel restriction code                  | : (-)                    |                       |
| TDG                                      |                          |                       |
| Not dangerous goods                      |                          |                       |
| CFR                                      |                          |                       |
| Not dangerous goods                      |                          |                       |
| IMDG                                     |                          |                       |
| Packaging group                          | : III                    |                       |
| Labels                                   | : 9                      |                       |
| ΙΑΤΑ                                     |                          |                       |
| Packing instruction (cargo aircraft)     | : 964                    |                       |
| Packing instruction (passenger aircraft) | : 964                    |                       |
| Packing instruction (LQ)                 | : Y964                   |                       |
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|             |                          |                       |

| Packaging group            | : 111                       |
|----------------------------|-----------------------------|
| Labels                     | : 9                         |
| 14.5 Environmental hazards |                             |
| ADR                        | : Environmentally hazardous |
| IMDG                       | : Marine pollutant          |

### 14.6 Special precautions for user

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

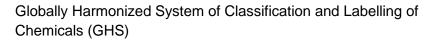
### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### **SECTION 15: Regulatory information**

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

| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : Not applicable |
|---|------------------|
| REACH - List of substances subject to authorisation                                       | : Not applicable |
| (Annex XIV)   |                  |
| Regulation (EC) No 1005/2009 on substances that   | : Not applicable |
| deplete the ozone layer   |                  |
| Regulation (EU) 2019/1021 on persistent organic   | : Not applicable |
| pollutants (recast)   |                  |
| REACH - Restrictions on the manufacture, placing on                                       | :                |
| the market and use of certain dangerous substances,                                       |                  |
| mixtures and articles (Annex XVII)  |                  |
|   |                  |



# ROTOSTAR Aqua FPG 74013 Pale Gold

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### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

#### **Full text of H-Statements**

| H302 | : Harmful if swallowed.   |  |
|------|---|--|
|      |   |  |
| H304 | : May be fatal if swallowed and enters airways.                                   |  |
| H313 | May be harmful in contact with skin.  |  |
| H315 | Causes skin irritation.   |  |
| H318 | : Causes serious eye damage.  |  |
| H319 | : Causes serious eye irritation.  |  |
| H373 | : May cause damage to organs through prolonged or repeated exposure if swallowed. |  |
| H400 | : Very toxic to aquatic life.   |  |
| H410 | : Very toxic to aquatic life with long lasting effects.                           |  |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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