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| Trading name: | PHOSPHOTUNGSTIC ACID, 1% SOLUTION |                      |             |          |   |
|---------------|-----------------------------------|----------------------|-------------|----------|---|
| Product code: | FVK1-OT-X**                       | Date of compilation: | 21 Dec 2022 | Version: | 2 |

| SECTI | ON 1 IDENTIFICATION                              | OF THE SUB       | STANCE/MI   | XTURE AND OF THE COMPANY/UNDERTAKING |  |
|-------|--|------------------|---|--------------------------------------|--|
| 1.1.  | Product identifier                               |                  |   |                                      |  |
|       | Trading name:                                    | PHOSPHO          | TUNGSTIC A  | CID, 1% SOLUTION                     |  |
|       | Chemical name:                                   | -                |   |                                      |  |
|       | Catalogue number:                                | FVK1-OT->        | <b>〈</b> **   |                                      |  |
| 1.2.  | Relevant identified use                          | es of the sub    | stance or mi  | xture and uses advised against       |  |
|       | Uses:  |                  | For use w   | ith special staining kits.           |  |
|       | Uses advised against:                            |                  | Only the i  | dentified uses are advised.          |  |
|       | Reason why uses advised against:                 |                  | The product is intended for use only as an <i>in vitro</i> diagnostic<br>medical device, registered at the Agency for Medicinal Products and<br>Medical Devices and there is no reason to use it for other purposes |                                      |  |
| 1.3.  | Details of the supplier of the safety data sheet |                  |   |                                      |  |
|       | Supplier:  |                  | BioGnost Ltd.   |                                      |  |
|       | Address:   |                  | Medjugorska 59, Zagreb  |                                      |  |
|       | Telephone number:                                |                  | +385 1 2409997  |                                      |  |
|       | Fax no.:   |                  | +385 1 2404039  |                                      |  |
|       | e-mail of competent p                            | person: <u>n</u> | msds@biognost.hr  |                                      |  |
|       | National contact:                                | -                | -   |                                      |  |
| 1.4.  | Emergency telephone                              | number           |   |                                      |  |
|       | National Protection ar                           | nd Rescue Di     | rectorate:  | 112                                  |  |
|       | Medical information:                             |                  |   | +385 1 2348 342                      |  |
|       | Other information:                               |                  |   | -                                    |  |

| SECTIO    | SECTION 2 HAZARDS INFORMATION              |                  |                          |  |  |
|-----------|--|------------------|--------------------------|--|--|
| 2.1.      | Classification of the substance or mixture |                  |                          |  |  |
| 2.1.1.    | Classification (REGULATION (EC) N          | No. 1272/2008    | (CLP)                    |  |  |
|           | Hazard class and category                  | code:            | Hazard statements*:      |  |  |
|           | Not identified as hazardous subst          | ance.            | -                        |  |  |
| 2.1.2.    | Additional information                     |                  |                          |  |  |
|           | -  |                  |                          |  |  |
| *For full | l text of Hazard- and EU Hazard-sta        | tements: see S   | ection 16                |  |  |
| 2.2.      | Classification according to EC Dire        | ective Nr. 1272, | (2008 CLP)               |  |  |
|           | Product identification:                    | PHOSPHOTU        | NGSTIC ACID, 1% SOLUTION |  |  |
|           | Identification number:                     | -                |                          |  |  |
|           | Authorization no.: -                       |                  |                          |  |  |
|           | Hazard pictograms: -                       |                  |                          |  |  |



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|      | Signal word:                | -     |
|------|-----------------------------|-------|
|      | Hazard statements:          | -     |
|      | Precautionary statements:   | -     |
|      | Further information:        | -     |
| 2.3. | Oth an harmala              |       |
| 2.5. | Other hazards               |       |
| 2.3. | Endocrine Disrupting Proper | ties: |
| 2.3. |                             |       |

| SECTION 3 CC                   | SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS |                                |                                 |  |  |  |
|--------------------------------|--|--------------------------------|---------------------------------|--|--|--|
| CAS/<br>EC/<br>Index no.       | REACH<br>Registration No                         | Weight % content<br>(or range) | Identification name             | Classification according to<br>Regulation (EC) No<br>1272/2008 (CLP) |  |  |
| 12501-23-4/<br>603-020-3/<br>- | -  | ≤ 1%                           | phosphotungstic acid<br>hydrate | Skin Corr. 1B; H314<br>Eye Dam. 1; H318                              |  |  |

| SECTI | ON 4 FIRST AID MEASURES                                     |  |      |
|-------|---|--|------|
| 4.1.  | Description of first aid measures                           |  |      |
|       | General notes:  | -  |      |
|       | Following inhalation:                                       | Carry the afflicted person out of the contaminated area into a well-<br>ventilated area or out for fresh air. If breathing becomes erratic or it<br>stops, immediately apply artificial respiration (other than mouth-to-<br>mouth) and contact a physician. | t    |
|       | Following skin contact:                                     | Remove contaminated clothing. Immediately wash with plenty of water and soap. Seek medical assistance if the symptoms of irritatio remain.   |      |
|       | Following eye contact:                                      | Rinse out with plenty of water with the eyelid held wide open using clean fingers. If the symptoms remain, immediately call a physician.   |      |
|       | Following ingestion:  | Do not induce vomiting. Make the afflicted person drink a glass of water. If spontaneous vomiting occurs, wash the mouth with water, then make the person drink 100-200 ml of water and seek medical attention.  |      |
|       | Self-protection of the first a                              | er: Treat symptomatically.   |      |
| 4.2.  | Most important symptoms and effects, both acute and delayed |  |      |
|       | Following inhalation:                                       | According to our findings, chemical, physical and toxicological properties the substance have not been entirely tested.  | ; of |
|       | Following skin contact:                                     | According to our findings, chemical, physical and toxicological properties the substance have not been entirely tested.  | ; of |



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|--------------------------|--|--------------------------------------|--|--|
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|                          | Following eye contact:<br>Following ingestion:                             |                                      | According to our findings, chemical, physical and toxicological properties of<br>the substance have not been entirely tested.<br>According to our findings, chemical, physical and toxicological properties of<br>the substance have not been entirely tested. |  |
| 4.3.                     | Indication of any immediate medical attention and special treatment needed |                                      |  |  |
|                          | -  |                                      |  |  |

| SECTIO | SECTION 5 FIREFIGHTING MEASURES   |   |  |  |  |
|--------|---|---|--|--|--|
| 5.1.   | Extinguishing media   |   |  |  |  |
|        | Suitable extinguishing media:   | Small fire - water spray, dry powder, CO <sub>2</sub><br>Large fire - water spray or alcohol-resistant foam |  |  |  |
|        | Unsuitable extinguishing media:   | water jet   |  |  |  |
| 5.2.   | Special hazards arising from the su   | ubstance or mixture   |  |  |  |
|        | Hazardous combustion products:  | No information available  |  |  |  |
| 5.3.   | Advice for firefighters   |   |  |  |  |
|        | Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing.<br>Cool closed containers exposed to fire with water spray or vapor. |   |  |  |  |
| 5.4.   | Additional information  |   |  |  |  |
|        | Remove sources of heat and ignition.<br>Do not contaminate the environment with extinguishing media.  |   |  |  |  |

| SECTIO | SECTION 6 ACCIDENTAL RELEASE MEASURES   |  |  |  |  |
|--------|---|--|--|--|--|
| 6.1.   | Personal precautions, protective equipment and emergency procedures   |  |  |  |  |
| 6.1.1. | For non-emergency personnel   |  |  |  |  |
|        | Protective equipment:   | Use personal protective equipment (see Section 8).   |  |  |  |
|        | Accident prevention methods   | Evacuate members of all non-essential personnel and those<br>members without protective equipment. Remove all sources of<br>sparks and ignition. Do not smoke. |  |  |  |
|        | Emergency procedures:   | Mark the area using proper signs.  |  |  |  |
| 6.1.2. | For emergency responders:   |  |  |  |  |
|        | Wear protective equipment (s  | see Section 8).  |  |  |  |
| 6.2.   | Environmental precautions:  |  |  |  |  |
|        | Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112. |  |  |  |  |
| 6.3.   | Methods and material for containment and cleaning up  |  |  |  |  |
| 6.3.1. | Bunding, covering of drains;<br>capping procedures:   | Sand or clay barriers.   |  |  |  |



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| 6.3.2. | Cleaning               | up:                 | Where possible, the substance can be absorbed by using inflammable<br>material (sand, diatomaceous earth, vermiculite). Place the waste material<br>in tightly closed impermeable containers. Store the substance in well<br>ventilated storage rooms until disposal. Submit for disposal to the legal<br>persons authorized by the Ministry of Environmental and Nature<br>Protection. After disposal of the products, wash the area and and involved<br>materials with water. |
| 6.3.3. | Other information:     |                     | -   |
| 6.4.   | Reference              | e to other sections |   |
|        | -                      |                     |   |

| SECTIO | FION 7 HANDLING AN STORAGE                       |  |  |  |  |
|--------|--|--|--|--|--|
| 7.1.   | Precautions for safe handling                    |  |  |  |  |
| 7.1.1. | Protection measures                              |  |  |  |  |
|        | Measures to prevent fire:                        | Keep away from sources of heat and ignition. Do not smoke.   |  |  |  |
|        | Measures to prevent aerosol and dust generation  | on: Secure proper ventilation.   |  |  |  |
|        | Measures to protect the environment:             | Prevent spilling into the sewage system and waterways.   |  |  |  |
|        | Other measures:                                  | -  |  |  |  |
| 7.1.2. | Advice on general occupational hygiene:          |  |  |  |  |
|        | Do not eat, drink or smoke in the workspace. Th  | oroughly wash hands after work and before eating.  |  |  |  |
| 7.2.   | Conditions for safe storage, including any incom | patibilities   |  |  |  |
|        | Technical measures and storage conditions:       | Keep in tightly closed and upright set containers in a well<br>ventilated storage rooms, and away from sources of heat,<br>sunlight, and other incompatible substances.              |  |  |  |
|        | Packaging materials:                             | Manufacturer's original packaging.   |  |  |  |
|        | Requirements for storage rooms and vessels:      | Keep away from food and drink. Keep the containers tightly closed.   |  |  |  |
|        | Advices for storage equipment:                   | The storage must be made of hard material; floors must<br>be resistant to chemicals. There must be no drain that<br>directly leads into sewage system. Secure proper<br>ventilation. |  |  |  |
|        | Further information on storage conditions:       | Do not place the unused material in the storage room<br>and do not use empty containers for storing other<br>chemicals. Do not store with incompatible materials (see<br>Section 9). |  |  |  |
| 7.3.   | Specific end use(s)                              |  |  |  |  |
|        | Recommendations:                                 | -  |  |  |  |
|        | Industrial sector specific solutions:            | -  |  |  |  |



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| 8.1. Control par       | ameters   |                    |                                 |                          |                          |                               |  |
|------------------------|-----------|--------------------|---------------------------------|--------------------------|--------------------------|-------------------------------|--|
| Substance CAS No       |           |                    | exposure limit<br>t term values | Biological limit values  |                          |                               |  |
|                        |           |                    |                                 | ppm                      | mg/m <sup>3</sup>        |                               |  |
| -                      |           | -                  |                                 | -                        | -                        | No information available      |  |
| Substance _            |           |                    |                                 |                          |                          |                               |  |
| EC No: -               |           | CAS No:            | -                               |                          |                          |                               |  |
| DNEL                   |           |                    | i i                             |                          |                          |                               |  |
|                        |           |                    |                                 | Industrial               |                          |                               |  |
| Route of<br>exposure:  |           | Acute<br>ect local | effe                            | Acute<br>ect systemic    | Chronic<br>effect loca   | Chronic<br>al effect systemic |  |
| Oral                   | -         |                    | -                               |                          | -                        | -                             |  |
| Inhalation             | -         |                    | -                               |                          | -                        | -                             |  |
| Dermal                 | -         |                    | -                               |                          | -                        | -                             |  |
| Critical physical para | meters: s | solubility, flan   | nmabili                         | ty, corrosivity:         | -                        |                               |  |
|                        |           |                    |                                 | Consumer                 |                          |                               |  |
| Route of<br>exposure:  |           | Acute<br>ect local | effe                            | Acute<br>ect systemic    | Chronic<br>effect loca   | Chronic<br>effect systemic    |  |
| Oral                   | -         |                    | -                               |                          | -                        | -                             |  |
| Inhalation             | -         |                    | -                               |                          | -                        | -                             |  |
| Dermal                 | -         |                    | -                               |                          | -                        | -                             |  |
| PNEC                   |           |                    |                                 |                          |                          |                               |  |
| Environmental prote    | ction tar | get                |                                 | PNEC                     |                          |                               |  |
| Fresh water            |           |                    |                                 | No info                  | No information available |                               |  |
| Freshwater sediment    | S         |                    |                                 | No info                  | No information available |                               |  |
| Marine water           |           |                    |                                 | No information available |                          |                               |  |
| Marine sediments       |           |                    |                                 | No info                  | No information available |                               |  |
| Food chain             |           |                    |                                 | No info                  | No information available |                               |  |
| Microorganisms in se   | ewage tr  | eatment            |                                 | No info                  | rmation availab          | le                            |  |
| Soil (agricultural)    |           |                    |                                 | No info                  | rmation availab          | le                            |  |
|                        |           |                    | No info                         | No information available |                          |                               |  |



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| 8.2.     | Exposure controls                                  |           |  |  |  |
|----------|--|-----------|--|--|--|
| 8.2.1.   | Engineering measures                               |           |  |  |  |
|          | mascurac to provent exposure                       |           | Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.  |  |  |
|          | Structural measures to pr exposure:                | event     | No information available   |  |  |
|          | Organisational measures prevent exposure:          | to        | Organization of work in order to reduce other worker's influence during work process.  |  |  |
|          | Technical measures to pro<br>exposure:             | event     | Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.   |  |  |
| 8.2.2.   | Personal protection equip                          | oment     |  |  |  |
| 8.2.2.1. | Eye and face protection:                           |           | Safety glasses that stick to face (preventing splashing) (EN 166) or visor.  |  |  |
| 8.2.2.2. | Skin protection                                    |           |  |  |  |
|          | Hand protection:                                   |           | tive gloves must be according to the EU Directive 2016/425/EEC and<br>and EN 374.<br>Glove material: nitrile rubber<br>Glove thickness: ≥0.50 mm<br>Break through time: >480 min       |  |  |
|          | Other skin protection:                             |           | antistatic clothing made of natural fibers (such as cotton) with long s (EN 13034), and shoes that cover the entire foot (EN 10335).   |  |  |
| 8.2.2.3. | Respiratory protection:                            | filter fo | tive full face mask (EN 136) or half mask (EN 140) equipped with a<br>or organic vapors, type "A" (boiling point >65°C) acording to EN<br>) used when concentration levels exceed GVI. |  |  |
| 8.2.2.4. | Thermal hazards:                                   | No inf    | ormation available   |  |  |
| 8.2.3.   | Environmental exposure of                          | controls  |  |  |  |
|          | Substance/mixture related measures to prevent expo |           | See Section 6  |  |  |
|          | Structural measures to pr<br>exposure:             | event     | Use modern equipment.  |  |  |
|          | Organisational measures prevent exposure:          | to        | Adapt the work process to the required working conditions of the workplace.  |  |  |
|          | Technical measures to pro<br>exposure:             | event     | See Section 6  |  |  |

| SECTIO | SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES               |       |        |  |  |
|--------|--|-------|--------|--|--|
| 9.1.   | 1. Information on basic physical and chemical properties |       |        |  |  |
|        |  | Value | Method |  |  |



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|     | Physical state:   | liquid                   | No information available |
|-----|---|--------------------------|--------------------------|
|     | Colour:   | colourless               | No information available |
|     | Odour/odour threshold:                                    | No information available | No information available |
|     | Melting point / freezing point:                           | No information available | No information available |
|     | Boiling point or initial boiling point and boiling range: | No information available | No information available |
|     | Flammability:   | No information available | No information available |
|     | Lover and upper explosion limit:                          | No information available | No information available |
|     | Flash point:  | No information available | No information available |
|     | Auto-ignition temperature:                                | No information available | No information available |
|     | Decomposition temperature:                                | No information available | No information available |
|     | pH:   | No information available | No information available |
|     | Kinematic viscosity:                                      | No information available | No information available |
|     | Solubility:   | No information available | No information available |
|     | Partition coefficient n-octanol/water (log value):        | No information available | No information available |
|     | Vapour pressure:  | No information available | No information available |
|     | Density and/or relative density:                          | No information available | No information available |
|     | Relative vapour density:                                  | No information available | No information available |
|     | Particle characteristics:                                 | No information available | No information available |
| .2. | Other information   |                          |                          |

| SECTIC | SECTION 10 STABILITY AND REACTIVITY |  |  |  |  |
|--------|-------------------------------------|--|--|--|--|
| 10.1.  | Reactivity:                         | See subsections 10.3 through 10.5.   |  |  |  |
| 10.2.  | Chemical stability:                 | The product is chemically stable under standard ambient conditions of storing and using. |  |  |  |
| 10.3.  | Possibility of hazardous reactions: | No information available   |  |  |  |
| 10.4.  | Conditions to avoid:                | No information available   |  |  |  |
| 10.5.  | Incompatible materials:             | No information available   |  |  |  |
| 10.6.  | Hazardous decomposition products:   | No information available   |  |  |  |

| SECTIO | SECTION 11 TOXICOLOGICAL INFORMATION                                     |  |  |  |
|--------|--|--|--|--|
| 11.1.  | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |  |  |  |
|        | Acute toxicity:  |  |  |  |



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|               |                                   | Effective dose            |                     |  |

| Route of exposure:                       | Method                      | Species          | Effective dose<br>LD <sub>50</sub> /LC <sub>50</sub> or<br>ATE <sub>mixture</sub> | Exposure time            | e Results |  |  |  |
|--|-----------------------------|------------------|---|--------------------------|-----------|--|--|--|
| Oral exposure:                           | No information<br>available | _                | LD <sub>50</sub>  | _                        | -         |  |  |  |
| Dermal exposure:                         | No information<br>available | -                | LD <sub>50</sub>  | -                        | -         |  |  |  |
| Inhalation<br>exposure:                  | No information<br>available | -                | LC <sub>50</sub>  | -                        | -         |  |  |  |
| Specific tar                             | get organ toxicity – si     | ingle exposure ( | STOT SE):   |                          |           |  |  |  |
| ÷  | Specif                      | ic effects       | Target or   | gan                      | Note      |  |  |  |
| Oral exposure:                           | No information              |                  | No information<br>available   | -                        |           |  |  |  |
| Dermal exposure:                         | No information              | available        | No information available  | n _                      |           |  |  |  |
| Inhalation exposure:                     | No information              | available        | No information<br>available   | No information           |           |  |  |  |
| Respiratory Irritation ar                | nd corrosion                |                  | ï   | 1 1                      |           |  |  |  |
|  | Exposure time               | Species          | Evaluatio   | n Met<br>hod             | Note      |  |  |  |
| Skin irritation:                         | -                           | -                | -   | -                        | -         |  |  |  |
| Eye irritation:                          | -                           | -                | -   | _                        | -         |  |  |  |
| Sensitizatio                             | n                           |                  |   |                          |           |  |  |  |
| Dermal exposure:                         | No information avail        | lable            |   |                          |           |  |  |  |
| Inhalation<br>exposure:                  | No information avail        | lable            |   |                          |           |  |  |  |
| Symptoms                                 | related to the physica      | al, chemical and | toxicological charac  | teristics                |           |  |  |  |
| Oral exposure:                           | No information av           |                  |   |                          |           |  |  |  |
| -  | No information available    |                  |   |                          |           |  |  |  |
| Dermal exposure:                         | No information av           | valiable         |   | No information available |           |  |  |  |
| Dermal exposure:<br>Inhalation exposure: |                             |                  |   |                          |           |  |  |  |



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| Repeate               | ed dose t        | toxicity (sub     | acute, subchro                 | onic, chron                  | ic)   |                                |                               |    |      |
|-----------------------|------------------|-------------------|--------------------------------|------------------------------|-------|--------------------------------|-------------------------------|----|------|
|                       | Γ                | Dose              | Exposure<br>time               | Species                      |       | Method                         | Evaluatio                     | n  | Note |
| Subacute oral         | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Subacute<br>dermal    | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Subacute inhalation   | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Subchronic oral       | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Subchronic<br>dermal  | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Subchronic inhalation | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | -    |
| Chronic oral          | No ir<br>availab | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | _    |
| Chronic dermal        | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available |       | No<br>information<br>available | No<br>informatio<br>available | on | _    |
| Chronic<br>inhalation | No ir<br>availat | nformation<br>ble | No<br>information<br>available | No<br>informati<br>available | -     | No<br>information<br>available | No<br>informatio<br>available | on | -    |
|                       |                  |                   |                                |                              |       |                                |                               |    |      |
| Specific              | target o         | -                 | y – repeated e                 | xposure (S                   | TOT F |                                |                               |    |      |
|                       |                  |                   | pecific effects                |                              |       | Target orga                    |                               |    | Note |
| Subacute oral         |                  |                   | tion available                 |                              | 1     | nformation avai                |                               | -  |      |
| Subacute derma        |                  |                   | tion available                 |                              |       | nformation avai                |                               | -  |      |
| Subacute inhalat      | ion              |                   | tion available                 |                              |       | nformation avai                |                               | -  |      |
| Subchronic oral       |                  |                   | tion available                 |                              |       | nformation avai                |                               | -  |      |
| Subchronic derm       |                  |                   | tion available                 |                              |       | nformation avai                |                               | -  |      |
| Subchronic inhal      | ation            |                   | tion available                 |                              |       | nformation avai                |                               | -  |      |
| Chronic oral          |                  | No informa        | tion available                 |                              | No i  | nformation avai                | lable                         | -  |      |



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|        |               |                       |                  |                         |                 |                         | Page 100     |   |
|--------|---------------|-----------------------|------------------|-------------------------|-----------------|-------------------------|--------------|---|
| Tradir | ng name:      |                       | PH               | OSPHOTU                 | NGSTIC AC       | D, 1% SOLUTION          | 1            |   |
| Produ  | ict code:     | FVK1-OT-X**           |                  | Date of compilation: 21 |                 | 21 Dec 2022             | Version:     | 2 |
|        |               |                       |                  |                         |                 |                         |              |   |
| Chron  | ic dermal     | No inform             | ation availa     | able                    | No inforn       | nation available        | -            |   |
| Chron  | ic inhalation | No inform             | nation availa    | able                    | No inforn       | nation available        | -            |   |
|        |               |                       |                  |                         |                 |                         |              |   |
|        | CMR effec     | cts (carcinogenic     | ty, mutagei      | nicity, reproc          | ductive toxicit | y)                      |              |   |
|        | Carcinoge     | enicity:              | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        | Mutageni      | city <i>in-vitro:</i> | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        | Genotoxic     | tity:                 | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        | Mutageni      | city <i>in-vivo</i> : | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        | Germ cell     | mutagenicity:         | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        | Reproduc      | tive toxicity:        | Base             | d on availabl           | e data, the cl  | assification criteria a | are not met. |   |
|        |               |                       | i                |                         |                 |                         |              |   |
|        | Summary       | of evaluation of      | the CMR pr       | operties:               | _               |                         |              |   |
|        | <u>-</u>      |                       |                  | L.                      |                 |                         |              |   |
| 11.2   | Informatio    | on on other haza      | rds <sup>.</sup> |                         |                 |                         |              |   |
|        | inonucio      |                       |                  |                         |                 |                         |              |   |

| 11.2    | Information on other hazards:  |
|---------|--|
| 11.2.1. | Endocrine disrupting properties:   |
|         | The substance/mixture does not<br>contain components considered to<br>have endocrine disrupting properties<br>according to REACH Article 57(f) or<br>Commission Delegated regulation (EU)<br>2017/2100 or Commission Regulation<br>(EU) 2018/605 at levels of 0.1% or<br>higher. |
| 11.2.2. | Other informations:  |
|         | -  |

| SECTION 12 ECOLOG    | ICAL INFOR       | MATION:          |                             |                                |            |      |
|----------------------|------------------|------------------|-----------------------------|--------------------------------|------------|------|
| 12.1. Toxicity       |                  |                  |                             |                                |            |      |
| Acute toxicity       | Dose             | Exposure<br>time | Species                     | Method                         | Evaluation | Note |
| Fish                 | LC <sub>50</sub> | 96 hours         | No information<br>available | No<br>information<br>available | -          | -    |
| Crustacea:           | EC <sub>50</sub> | 48 hours         | No information<br>available | No<br>information<br>available | -          | -    |
| Algae/aquatic plants | IC <sub>50</sub> | 8 days           | No information<br>available | No<br>information<br>available | -          | -    |



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| Trading name: | I           | PHOSPHOTUNGSTIC AC   | D, 1% SOLUTION |            |
|---------------|-------------|----------------------|----------------|------------|
| Product code: | FVK1-OT-X** | Date of compilation: | 21 Dec 2022    | Version: 2 |

| Microorganisms       | LC <sub>50</sub> | 72 hours         | -                        | -                              | _                              | -    |
|----------------------|------------------|------------------|--------------------------|--------------------------------|--------------------------------|------|
| Chronic toxicity     | Dose             | Exposure<br>time | Species                  | Method                         | Evaluation                     | Note |
| Fish                 | LC <sub>50</sub> | 96 hours         | No information available | No<br>information<br>available | No<br>information<br>available | -    |
| Crustacea:           | EC <sub>50</sub> | 48 hours         | No information available | No<br>information<br>available | No<br>information<br>available | -    |
| Algae/aquatic plants | IC <sub>50</sub> | 72 hours         | No information available | No<br>information<br>available | No<br>information<br>available | -    |
| Other organisms      | -                | -                | -                        | -                              | -                              | -    |

#### 12.2. Persistence and degradability

| Abio            | tic degradation          |                          |                          |      |
|-----------------|--------------------------|--------------------------|--------------------------|------|
|                 | Degradation half-lives   | Method                   | Evaluation               | Note |
| Marine<br>water | No information available | No information available | No information available | -    |
| Fresh water     | No information available | No information available | No information available | -    |
| Air             | No information available | No information available | No information available | -    |
| Soil            | No information available | No information available | No information available | -    |

#### Biodegradation

| % Degradation               | Time (days)              | Method                      | Evaluation               | Note                        |
|-----------------------------|--------------------------|-----------------------------|--------------------------|-----------------------------|
| No information<br>available | No information available | No information<br>available | No information available | No information<br>available |
|                             |                          |                             |                          |                             |

## 12.3. Bioaccumulative potential

| Partition coefficient: n-octano | ol/water (log Kow): |
|---------------------------------|---------------------|
|---------------------------------|---------------------|

| Value | Concentration            | рΗ | °C | Method                   | Evaluation               | Note |
|-------|--------------------------|----|----|--------------------------|--------------------------|------|
| -     | No information available | -  | -  | No information available | No information available | -    |
|       |                          |    |    |                          |                          |      |
|       |                          |    |    |                          |                          |      |
|       |                          |    |    |                          |                          |      |



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| Trading name: | PH          | OSPHOTUNGSTIC ACI    | D, 1% SOLUTION |            |
|---------------|-------------|----------------------|----------------|------------|
| Product code: | FVK1-OT-X** | Date of compilation: | 21 Dec 2022    | Version: 2 |

|                    | Bioconce   | entratio   | n factor (BCF)  |                                    |   |                                |                                |    |                               |           |
|--------------------|--|--|---|------------------------------------|---|--------------------------------|--------------------------------|----|-------------------------------|-----------|
| ١                  | Value  |  | Species   |                                    | Me  | ethod                          | Evaluation                     |    | Note                          | 9         |
| No info<br>availab | ormation<br>ble  | No<br>avail  | inform<br>able  | ation                              | No inforr<br>available                                |                                | No informati<br>available      | on | No information                | available |
|                    |  |  |   |                                    |   |                                |                                |    |                               |           |
|                    | Chronic  | ecotoxic   | city  |                                    |   |                                |                                |    |                               |           |
|                    | Value  |  | Dose  |                                    | osure<br>ime  | Species                        | Method                         |    | Evaluation                    | Note      |
| Chroni             | c toxicity o   | on fish  | LC <sub>50</sub>  | No<br>infor<br>availa              | mation i  | No<br>information<br>available | No<br>information<br>available | 1  | o information<br>ailable      | -         |
|                    | c toxicity o<br>cea ( <i>Daphn</i>   |  | EC <sub>50</sub>  | No<br>infor<br>availa              | mation i  | No<br>information<br>available | No<br>information<br>available |    | o information<br>ailable      | -         |
|                    | INO INTOR  |  |   |                                    |   |                                |                                |    |                               |           |
|                    | No infor   | •  | ted distributi  |                                    |   |                                |                                |    |                               |           |
|                    | Surface t  | tension:   | °C  | C                                  | oncentratio   | on                             | Method                         |    | Not                           | e         |
|                    | Surface 1  | tension:<br>e<br>N<br>tion ii  |   | No                                 | oncentratio<br>informatio<br>ilable                   |                                | ormation                       |    | - Not                         | e         |
|                    | Surface t<br>Value<br>No<br>informat   | tension:<br>e N<br>ion in<br>e a   | °C<br>Io<br>nformation<br>vailable<br>sorption                          | No                                 | informatio  | on No inf                      | ormation                       |    |                               | e         |
| Transp             | Surface t<br>Value<br>No<br>informat<br>available<br>Adsorpti                          | tension:<br>e N<br>cion in<br>e a<br>ion / des                               | °C<br>lo<br>nformation<br>vailable                                      | No<br>ava                          | informatio  | on No inf<br>availal           | ormation                       |    |                               | e<br>Note |
| Transp<br>Soil-wa  | Surface t<br>Value<br>No<br>informat<br>available<br>Adsorpti                          | tension:<br>e N<br>ion in<br>e a<br>ion / des<br>A/D co<br>Henry's           | °C<br>Io<br>nformation<br>vailable<br>sorption<br>efficient             | No<br>ava                          | informatio<br>ilable<br>og Kow                        | on No inf<br>availal<br>Evap   | ormation<br>ble                |    | -                             |           |
|                    | Surface t<br>Value<br>No<br>informat<br>available<br>Adsorpti<br>ort<br>ater No<br>ava | tension:<br>e N<br>ion in<br>e a<br>ion / des<br>A/D co<br>Henry's<br>ilable | °C<br>Io<br>nformation<br>vailable<br>sorption<br>efficient<br>constant | No<br>ava<br>lc<br>No ir<br>availa | information<br>ilable<br>og Kow<br>aformation<br>able | on No inf<br>availal<br>Evap   | Formation<br>ble               |    | -<br>Method<br>No information |           |



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| Trading name: |  | PHOSPHOTUNGSTIC ACID, 1% SOLUTION |  |                      |                         |  |
|---------------|--|-----------------------------------|--|----------------------|-------------------------|--|
| Product code: |  | FVK1-OT-X**                       | Date of compilation:   | 21 Dec 2022          | Version: 2              |  |
| 12.5.         | Poculto of   | PBT and vPvB assessr              | nont   |                      |                         |  |
|               |  |                                   |  | ad to have ondecrin  | a disrupting properties |  |
|               |  |                                   | t contain components considere<br>f) or Commission Delegated reg |                      |                         |  |
|               | -  | n (EU) 2018/605 at lev            |  |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
| 12.6.         | Endocrine  | e disrupting properties           | ;  |                      |                         |  |
|               | The subst  | ance/mixture does no              | t contain components considere                                   | ed to have endocrin  | e disrupting properties |  |
|               | -  |                                   | f) or Commission Delegated reg                                   | ulation (EU) 2017/2  | 100 or Commission       |  |
|               | Regulatio  | n (EU) 2018/605 at lev            | els of 0.1% or higher.   |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
|               |  | erse effects                      |  |                      |                         |  |
|               | No inform  | nation available                  |  |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
| SECTION       | N 13 DISP  | OSAL CONSIDERATION                | ONS  |                      |                         |  |
| 13.1.         | Waste t  | reatment methods                  |  |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
| 13.1.1.       | Product  | /Packaging disposal:              |  |                      |                         |  |
|               | Submit<br>Protecti                                 |                                   | al person authorized by the Mir                                  | nistry of Environmer | ntal and Nature         |  |
| 13.1.2.       | Waste c  | odes/waste designatio             | ons according to Law:  |                      |                         |  |
| 13.1.2.       |  | 5                                 |  |                      |                         |  |
|               | No information available                           |                                   |  |                      |                         |  |
| 13.1.3.       | Waste t  | reatment – relevant in            | formation:   |                      |                         |  |
|               | No info  | rmation available                 |  |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
| 13.1.4.       | Sewage   | disposal – relevant in            | formation:   |                      |                         |  |
|               |  |                                   | of into the sewage system.                                       |                      |                         |  |
|               |  |                                   |  |                      |                         |  |
| 13.1.5.       | Other d  | isposal recommendati              | ions:  |                      |                         |  |
|               |  |                                   | t's remains into the sewage syst                                 | tem. Submit the ren  | nains to the collectors |  |
|               |  |                                   | charge. Do not dispose of the p                                  |                      |                         |  |
|               |  |                                   | rs authorized by the ministry in                                 | charge. Do not disp  | oose of in places where |  |
|               | ignition may occur. Relevant Community provisions: |                                   |  |                      |                         |  |
| 13.1.6.       |  | •                                 |  |                      |                         |  |



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| Trading name:               |                      | PHOSPHOTUNGSTIC ACID, 1% SOLUTION |                             |             |            |
|-----------------------------|----------------------|-----------------------------------|-----------------------------|-------------|------------|
| Product code:               | FVK1-OT-X**          |                                   | Date of compilation:        | 21 Dec 2022 | Version: 2 |
|                             |                      |                                   | ·                           |             |            |
| SECTION 14 TRAN             | NSPORT INFORMA       | TION                              |                             |             |            |
| Transport                   | ing/shipment by roa  |                                   |                             |             |            |
| UN number:                  |                      | Not                               | t subject to transport regu | ulations.   |            |
| UN proper shippin           | g name:              | -                                 |                             |             |            |
| Transport hazard class(es): |                      | -                                 |                             |             |            |
| Packing group:              |                      | -                                 |                             |             |            |
| Environmentally ha          | azardous:            | -                                 |                             |             |            |
| Special precaution          | s for user:          | -                                 |                             |             |            |
| Transport                   | ing/shipment by rail | (RID)                             |                             |             |            |
| UN number:                  |                      | Not                               | t subject to transport regu | ulations.   |            |
| UN proper shippin           | g name:              | -                                 |                             |             |            |
| Transport hazard c          | lass(es):            | -                                 |                             |             |            |
| Packing group:              |                      | -                                 |                             |             |            |
| Environmentally hazardous:  |                      | -                                 |                             |             |            |
| Special precaution          | s for user:          | -                                 |                             |             |            |
|                             | terway transport (AI | Ī                                 |                             |             |            |
| UN number:                  |                      | Not                               | t subject to transport regu | ulations.   |            |
| UN proper shipping name:    |                      | -                                 |                             |             |            |
| Transport hazard class(es): |                      | -                                 |                             |             |            |
| Packing group:              |                      | -                                 |                             |             |            |
| Environmentally hazardous:  |                      | -                                 |                             |             |            |
| Special precaution          |                      | -                                 |                             |             |            |
| •                           | ing/shipment by sea  |                                   |                             |             |            |
| UN number:                  | UN number:           |                                   | t subject to transport regu | ulations.   |            |
| UN proper shipping name:    |                      | -                                 |                             |             |            |
| Transport hazard class(es): |                      | -                                 |                             |             |            |
| Packing group:              | Packing group:       |                                   |                             |             |            |
| Environmentally hazardous:  |                      | -                                 |                             |             |            |
| Special precaution          |                      | -                                 |                             |             |            |
| •                           | ing/shipment by air  | -                                 |                             |             |            |
| UN number:                  |                      | Not                               | t subject to transport regu | ulations.   |            |
| UN proper shippin           |                      | -                                 |                             |             |            |
| Transport hazard c          | lass(es):            | -                                 |                             |             |            |
| Packing group:              |                      | -                                 |                             |             |            |
| Environmentally ha          | azardous:            | -                                 |                             |             |            |



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| Trading name:       |              | PHOSPHOTUNGSTIC ACID, 1% SOLUTION |             |            |  |
|---------------------|--------------|-----------------------------------|-------------|------------|--|
| Product code:       | FVK1-OT-X**  | Date of compilation:              | 21 Dec 2022 | Version: 2 |  |
| Special precaution  | ns for user: | -                                 |             |            |  |
|                     |              |                                   |             |            |  |
| Further information | on: -        |                                   |             |            |  |

SECTION 15 REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1. EU regulations Authorization and/or restrictions of use Authorizations: **Restrictions:** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC; Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and Other EU regulations: amending Directive 1999/13/EC; Council 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; Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII); Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOCguideline) Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and National legislation: classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act 15.2. Chemical safety assessment None

| SECTION 16 Other information |                        |   |
|------------------------------|------------------------|---|
| 16.1.                        | Indication of changes: | - |



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| Trading name:<br>Product code: FVK1-OT-X** |   |                           | PHOSPHOTUNGSTIC ACID, 1% SOLUTION  |  |  |  |  |
|--|---|---------------------------|--|--|--|--|--|
|  |   | FVK1-OT-X**               | Date of compilation: 21 Dec 2022 Version: 2  |  |  |  |  |
| 16.2.                                      | Abbreviat   | ions and acronyms:        | ADR: Accord relatif au transport international des marchandises dangereuses par<br>route (European Agreement Concerning the International Carriage of Dangerous<br>Goods by Road)<br>IMDG: International Maritime Code for Dangerous Goods<br>IATA: International Air Transport Association<br>GHS: Globally Harmonised System of Classification and Labelling of Chemicals<br>EINECS: European Inventory of Existing Commercial Chemical Substances<br>CAS: Chemical Abstracts Service (division of the American Chemical Society)<br>DNEL: Derived No-Effect Level (UK REACH)<br>LC50: Lethal concentration, 50 percent<br>LD50: Lethal dose, 50 percent<br>PBT: Persistent, Bioaccumulative and Toxic<br>vPvB: very Persistent and very Bioaccumulative |  |  |  |  |
| 16.3.                                      | Key literat<br>source of  | ture references and data: | -  |  |  |  |  |
| 16.4.                                      | Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP) |                           |  |  |  |  |  |
| Classification                             |   | (                         | Classification procedure   |  |  |  |  |
| -  |   | -                         | -  |  |  |  |  |
| 16.5.                                      | Relevant H statements (number and full text)  |                           |  |  |  |  |  |
|  |   |                           | Causes severe skin burns and eye damage.<br>Causes serious eye damage.   |  |  |  |  |
| 16.6.                                      | Training a  | dvice:                    | -  |  |  |  |  |
| 16.7.                                      | Further in  | t<br>formation: N<br>i    | * "X" in the product code marks different volumes (different packagings of<br>he product)<br>Ve are not responsible for consequences in case of failure to comply with<br>nstructions for use or improper use of the product described in this<br>naterial safety data sheet.  |  |  |  |  |

# ANNEX:

Exposure scenario resulting to Chemical safety assessment

-