# 上海纳诺微新材料科技有限公司

Shanghai NNW New Materials Technology Co., Ltd.

# **Safety Data Sheet**

# Water based dye ink

Version:1.1 Creation Date:2023/06/21 Revision Date:2023/06/21 Color: Bright orange Country of Destination:EU \*Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

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

# 1.1 Product identifier Product Name Water based dye ink (Bright orange) Synonyms - CAS NO. - EC NO. - Chemical Formula -

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

| Relevant identified uses | To write |
|--------------------------|----------|
| Uses advised against     | —        |

### 1.3 Details of the supplier of the Safety Data Sheet

| Name of the company    | Shanghai NNW New Materials Technology Co., Ltd.                                   |
|------------------------|---|
| Address of the company | ROOM 402, Buildiing17, Lane 268, Lingxin Road, Changning District Shanghai, CHINA |
| Post code              | 200335  |
| Telephone number       | 021-64476059  |
| Fax number             | 021-64476096  |
| Email                  | sales@nnwchina.com  |

#### 1.4 Emergency phone number

*Emergency phone number* +8613311812200

# SECTION 2 Hazards identification

### 2.1 Classification of the substance or mixture

| Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulat | ion. |
|---|------|
|---|------|

2.2 Label elements

| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|
| Signal word         | Not Applicable |
| Hazard statements   | Not Applicable |

2.3 Precautionary statements

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| Prevention | Not Applicable |
|------------|----------------|
| Response   | Not Applicable |
| Storage    | Not Applicable |
| Disposal   | Not Applicable |

#### 2.4 Other hazards

None of the ingredients ( $\geq 0.1\%$ ) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

# SECTION 3 Composition/information on ingredients

#### 3.1 Substance

Not Applicable

#### 3.2 Mixtures

> Description:Mixture of substances listed.

| 1.CAS No<br>2.EC No<br>3.Index No<br>4.REACH No                      | %[weight] | Name   | Classification according to<br>regulation (EC)No 1272/2008<br>[CLP] and amendments | Nanoform Particle<br>Characteristics | SCL/M-Factor/<br>ATE |
|--|-----------|--|--|--------------------------------------|----------------------|
| 1.56-81-5<br>2.200-289-5<br>3.Not Available<br>4.Not Available       | 10.0      | Glycerol   | Not Classified   | Not Applicable                       | Not Applicable       |
| 1.2783-94-0<br>2. 220-491-7<br>3.Not Available<br>4.Not Available    | 4.0       | Food Yellow 3  | Not Classified   | Not Applicable                       | Not Applicable       |
| 1.9003-39-8<br>2.Not Available<br>3.Not Available<br>4.Not Available | 1.0       | Polyvinyl pyrrolidone                                  | Not Classified   | Not Applicable                       | Not Applicable       |
| 1.2611-82-7<br>2.220-036-2<br>3.Not Available<br>4.Not Available     | 1.5       | Acid Red 18  | Not Classified   | Not Applicable                       | Not Applicable       |
| 1.7732-18-5<br>2.231-791-2<br>3.Not Available<br>4.Not Available     | 83.5      | Water, distilled, conductivity or<br>of similar purity | Not Classified   | Not Applicable                       | Not Applicable       |

# SECTION 4 First aid measures

#### 4.1 Description of first aid measures

| General advice   | Seek medical attention if necessary. Show this Safety Data Sheet (SDS) to the physician present.  |  |
|--|---|--|
| <i>Eye contact</i> Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist. |   |  |
| Skin contact   | Wash with water. If there are signs of irritation or other symptoms seek medical attention.   |  |
| Ingestion  | Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.   |  |
| Inhalation   | Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately. |  |

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

No known symptoms or effects, acute or delayed.

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

No special immediate medical attention or special treatment needed.

# SECTION 5 Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media   | $CO_2$ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |  |
|--------------------------------|--|--|
| Unsuitable extinguishing media | Water with full jet.   |  |

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

May form irritating fumes in the air under fire.

#### 5.3 Advice for firefighters

| NW | Water based dye i | Water based dye ink-Bright orange   |               | Revision Date: 2023/06/21 |
|----|-------------------|---|---------------|---------------------------|
|    | 1                 | As in any fire, wear self-contained breathing apparatus(MSHA/NIOSH approved or equivalent) and full p | rotective gea | ır.                       |
|    | 2                 | Fight fire from a safe distance, with adequate cover.   |               |                           |
|    | 3                 | Prevent fire extinguishing water from contaminating surface water or the ground water system.         |               |                           |

# SECTION 6 Accidental release measures

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

| 1 Ensure adequate ventilation. |   |
|--------------------------------|---|
| 2                              | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 3                              | Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.    |

#### 6.2 Environmental precautions

| 1 | Do not allow to enter sewers/ surface or ground water. |
|---|--|
| 2 | Discharge into the environment must be avoided.        |

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

| <i>1</i> Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). |  |  |
|---|--|--|
| 2   | Dispose contaminated material as waste according to item 13.                 |  |
| 3   | Use respiratory protective device against the effects of fumes/dust/aerosol. |  |

#### 6.4 Reference to other sections

| 1 | See section 7 for information on safe handing.                  |
|---|---|
| 2 | See section 8 for information on personal protection equipment. |
| 3 | See section 13 for disposal in formation.                       |

# SECTION 7 Handling and storage

#### 7.1 Precautions for handling

# > Protective measure

| 1 | Ensure good ventilation/exhaustion at the workplace. |
|---|--|
| 2 | Keep receptacles tightly sealed.                     |
| 3 | Keep away from heat and direct sunlight.             |
| 4 | Avoid contact with eyes.                             |
| 5 | Avoid breathing vapour.                              |

#### > Information about fire - and explosion protection

Normal measures for preventive fire protection.

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

| 1 | Keep containers tightly closed.                                   |
|---|---|
| 2 | Keep containers in a dry, cool and well-ventilated place.         |
| 3 | Store away from incompatible materials and food stuff containers. |
| 4 | Store away from strong oxidants and strong acids.                 |

#### 7.3 Specific end use(s)

See section 1.2

# SECTION 8 Exposure controls/personal protection

#### Water based dye ink-Bright orange

| Ingredient    | DNELs<br>Exposure Pattern Worker   | PNECs<br>Compartment   |
|---------------|--|--|
| Glycerol      | Inhalation 220 mg/m³ (Local, Chronic)<br>Inhalation 132 mg/m³ (Local, Chronic) *   | 0.885mg/L (Water (Fresh))<br>0.088 mg/L (Water - Intermittent release)<br>8.85 mg/L (Water (Marine))<br>3.3 mg/kg sediment dw (Sediment (Fresh Water))<br>0.33 mg/kg sediment dw (Sediment (Marine))<br>1000 mg/L (STP)<br>0.141mg/kg soil dw (Soil)   |
| Food Yellow 3 | Inhalation 1469.298 mg/m <sup>3</sup> (Local, Chronic)<br>Dermal 833.333 mg/kg bw/day (Systemic, Chronic)<br>Inhalation 362.319 mg/m <sup>3</sup> (Local, Chronic) *<br>Dermal 416.667 mg/kg bw/day (Systemic, Chronic)*<br>Oral 208.333 mg/kg bw/day (Systemic, Chronic)* | <ul> <li>113.2-165 μg/L (Water (Fresh))</li> <li>1.132-1.65 mg/L (Water - Intermittent release)</li> <li>11.32-16.5 mg/L (Water (Marine))</li> <li>1.76 mg/L (STP)</li> <li>72 054.279 mg/kg sediment dw (Sediment (Fresh Water))</li> <li>72 054.279 mg/kg sediment dw (Sediment (Marine))</li> <li>34.5 g/kg soil dw (Soil)</li> </ul> |
| Acid Red 18   | Inhalation 24.7 mg/m <sup>3</sup> (Systemic, Chronic)<br>Dermal 7 mg/kg bw/day (Systemic, Chronic)<br>Inhalation 3.7 mg/m <sup>3</sup> (Systemic, Chronic)*<br>Dermal 2.5 mg/kg bw/day (Systemic, Chronic)*<br>Oral 2.5 mg/kg bw/day (Systemic, Chronic)*                  | 0.1 mg/L (Water (Fresh))<br>1 mg/L (Water - Intermittent release)<br>0.01 mg/L (Water (Marine))<br>10 mg/L (STP)<br>0.392 mg/kg sediment dw (Sediment (Fresh Water))<br>0.0392 mg/kg sediment dw (Sediment (Marine))<br>0.0197 mg/kg soil dw (Soil)  |

\* Values for General Population

#### 8.1.1 Occupational Exposure Limits (OEL)

#### Ingredient data

| Ingredient     | Country       | Limit value - Eight hours | Limit value - Short term                             |
|----------------|---------------|---------------------------|--|
|                | Belgium       | 10mg/m <sup>3</sup>       | Not data available                                   |
|                | VLEP (France) | 10mg/m <sup>3</sup>       | Not data available                                   |
|                | WELs(UK)      | 10mg/m³                   | Not data available                                   |
|                | Finland       | 20mg/m <sup>3</sup>       | Not data available                                   |
|                | AGS(Germany)  | 200mg/m <sup>3 [1]</sup>  | 400mg/m <sup>3</sup> [ <sup>1]</sup> ] <sup>2]</sup> |
| Glycerol, mist | DFG(Germany)  | 200mg/m <sup>3 [1]</sup>  | 400mg/m <sup>3</sup> [ <sup>1]</sup> ] <sup>2]</sup> |
|                | Ireland       | 10mg/m³                   | Not data available                                   |
|                | Poland        | 10mg/m <sup>3</sup>       | Not data available                                   |
|                | Spain         | 10mg/m <sup>3</sup>       | Not data available                                   |
|                | Switzerland   | 50mg/m³inhalable aerosol  | 100mg/m³inhalable aerosol                            |

Remarks: 1. Inhalable fraction 2.15 minutes average value

#### Emergency Limits

| Ingredient            | TEEL-1              | TEEL-2               | TEEL-3                 |
|-----------------------|---------------------|----------------------|------------------------|
| Glycerol              | 45mg/m <sup>3</sup> | 180mg/m <sup>3</sup> | 1100mg/m³              |
| Polyvinyl pyrrolidone | 51mg/m³             | 560mg/m <sup>3</sup> | 20000mg/m <sup>3</sup> |

#### 8.2 Engineering controls

| General protective and hygienic measures | The usual precau |
|--|------------------|
|--|------------------|

The usual precautionary measures are to be adhered to when handling chemicals.

#### 8.3 Personal protection equipment

| General requirement      |  |
|--------------------------|--|
| Eye protection           | Tightly fitting safety goggles (approved by EN166(EU) or NIOSH(US).  |
| Hand protection          | Wear protective gloves(such as butyl rubber, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard. |
| Respiratory protection   | Not required under normal conditions of use.   |
| Skin and body protection | Not required under normal conditions of use.   |
| Other protection         | No special equipment needed when handling small quantities.  |

# SECTION 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

| Appearance                       | Bright orange        |                          | Dynamic             | Not determined                             |
|----------------------------------|----------------------|--------------------------|---------------------|--|
| Physical state                   | Liquid               | - Viscosity              | Kinematic:          | Not determined                             |
| Odour                            | Odourless            | Vapour dens              | sity (Air = 1)      | Not determined                             |
| Odour threshold                  | Not determined       | Density/Relative density |                     | Not determined                             |
| pH (as supplied)                 | Not determined       | Decomposition            | n temperature       | Not determined                             |
| Melting point/freezing point(°C) | Not determined       | Partic                   | le Size             | Not determined                             |
| Flash point(Closed cup,°C)       | Not determined       | Vapour pre               | ssure (kPa)         | Not determined                             |
| Flammability                     | Not flammable liquid | Relative va              | por density         | Not determined                             |
| Evaporation rate                 | Not determined       | Partition coefficier     | nt n-octanol/ water | Not determined                             |
| Upper Explosive Limit (%)        | Not determined       | Auto-ignition te         | emperature(°C)      | Not determined                             |
| Lower Explosive Limit (%)        | Not determined       | Explosive                | properties          | Product does not present anexplosion hazar |
| Self-igniting                    | Not determined       | Oxidising                | properties          | Not determined                             |
| Taste                            | Not determined       | Surface Tension (d       | lyn/cm or mN/m)     | Not determined                             |
| Volatile Component (%vol)        | Not determined       | Gas g                    | roup                | Not determined                             |
| pH as a solution (1%)            | Not determined       | VOC                      | 5 g/L               | Not determined                             |

# 9.2 Other information

No further relevant information available.

# SECTION 10 Stability and reactivity

#### 10.1 Stability and reactivity

| Reactivity                         | No further relevant information available.            |
|------------------------------------|---|
| Chemical stability                 | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | No dangerous reactions known.                         |
| Conditions to avoid                | No further relevant information available.            |
| Incompatible materials             | No further relevant information available.            |
| Hazardous decomposition products   | No dangerous decomposition products known.            |

# SECTION 11 Toxicological information

# 11.1 Information on toxicological effects

| Inhaled      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product. |
|--------------|--|
| Ingestion    | The material has not been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  |
| Eye          | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).   |
| Chronic      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.   |

| Water based due in b  | ΤΟΧΙΟΙΤΥ          | IRRITATION        |
|-----------------------|-------------------|-------------------|
| Water based dye ink   | No data available | No data available |
|                       |                   |                   |
| Polyvinyl pyrrolidone | ΤΟΧΙCΙΤΥ          | IRRITATION        |

|               | ΤΟΧΙCITY  | IRRITATION  |  |  |
|---------------|---|---|--|--|
| Glycerol      | Oral (rat) LD50:> 11500 mg/kg <sup>[1]</sup><br>Inhalation(rat) LC50: > 5.85mg/L 4h <sup>[1]</sup><br>Dermal (guinea pig) LD50: 45 ml/kg <sup>[1]</sup> | Skin (rabbit):non-irritating(Draize)<br>Eye (rabbit):non-irritating (Draize)  |  |  |
|               | ΤΟΧΙΟΙΤΥ  | IRRITATION  |  |  |
| Food Yellow 3 | Oral (rat) LD50:>2000 mg/kg <sup>[1]</sup><br>Dermal (rat) LD50:>2000 mg/kg <sup>[1]</sup>  | Eye:no adverse effect observed (not irritating)(Draize)<br>Skin:no adverse effect observed (not irritating)(Draize)   |  |  |
|               | ΤΟΧΙΟΙΤΥ  | IRRITATION  |  |  |
| Acid Red 18   | Oral (rat) LD50:>8000 mg/kg <sup>[1]</sup>  | Eye: no adverse effect observed (not irritating)(Draize)<br>Skin: no adverse effect observed (not irritating)(Draize) |  |  |
| Legend:       | 1. Value obtained from Europe ECHA Registered Substances - Acute  | toxicity 2.Value obtained from manufacturer's SDS.  |  |  |

#### 11.2 Carcinogenicity

| Component            | Cas No.   | IARC       |
|----------------------|-----------|------------|
| Glycerol             | 57-55-6   | Not listed |
| Food yellow 3        | 2783-94-0 | Not listed |
| Polyvinylpyrrolidone | 9003-39-8 | Category 3 |
| Acid red 18          | 2611-82-7 | Not listed |
| Water                | 7732-18-5 | Not listed |

#### 11.2.1 Endocrine Disruption Properties

None of the ingredients ( $\geq 0.1\%$ ) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

# 11.3 Primary irritant effect

| Carcinogenicity               | Based on available data, the classification criteria are not met. |
|-------------------------------|---|
| Skin corrosion/irritation     | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met. |
| Skin sensitization            | Based on available data, the classification criteria are not met. |
| Respiratory sensitization     | Based on available data, the classification criteria are not met. |
| Reproductive toxicity         | Based on available data, the classification criteria are not met. |
| STOT-single exposure          | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure        | Based on available data, the classification criteria are not met. |
| Aspiration hazard             | Based on available data, the classification criteria are not met. |

# SECTION 12 Ecological information

#### 12.1 Toxicity

| Water Land due in L | Endpoint          | Test Duration (hr) | Species                         | Value              |  |
|---------------------|-------------------|--------------------|---------------------------------|--------------------|--|
| Water based dye ink | No data available | No data available  | No data available               | No data available  |  |
|                     | Endpoint          | Test Duration (hr) | Species                         | Value              |  |
| Classed             | LC50              | 96h                | Fish                            | 54000 mg/L         |  |
| Glycerol            | EC50              | 48h                | Aquatic invertebrates           | 1955mg/L           |  |
|                     | EC50              | 192h               | Aquatic algae and cyanobacteria | 2900mg/L           |  |
|                     | Endpoint          | Test Duration (hr) | Species                         | Value              |  |
|                     | LC50              | 96h                | Fish                            | 100 - 216.466 mg/L |  |
| Food yellow 3       | EC50              | 48h                | Aquatic invertebrates           | 100 - 382.262 mg/L |  |
|                     | NOEC              | 72h                | Aquatic algae and cyanobacteria | 15.729 mg/L        |  |
|                     | EC50              | 72h                | Aquatic algae and cyanobacteria | 113.2 mg/L         |  |

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|             | Endpoint | Test Duration (hr)                   | Species               | Value                       |  |
|-------------|----------|--------------------------------------|-----------------------|-----------------------------|--|
|             | NOEC     | 168h Aquatic plants other than algae |                       | 100 mg/L                    |  |
| Acid Red 18 | EC50     | 48h                                  | Aquatic invertebrates | >100 mg/L                   |  |
|             | EC0      | 48h                                  | Aquatic invertebrates | 100 mg/L                    |  |
|             | LC50     | 96h                                  | Fish                  | >1000 mg/L                  |  |
|             | BCF      | 672h                                 | Fish                  | <=0.55 l/kg(conc.0.474mg/L) |  |
|             | BCF      | 672h                                 | Fish                  | <=5.6 l/kg(conc.0.0474mg/L) |  |

#### 12.2 Persistence and degradability

| Component     | Cas No.   | Persistence (water/soil)           |
|---------------|-----------|------------------------------------|
| Glycerol      | 56-81-5   | Readily biodegradable in water     |
| Food yellow 3 | 2783-94-0 | Readily biodegradable in water     |
| Acid red 18   | 2611-82-7 | Not readily biodegradable in water |

#### 12.3 Bioaccumulative potential

| Component     | Cas No.   | Bioaccumulative potential           | Remarks                      |  |
|---------------|-----------|-------------------------------------|------------------------------|--|
| Glycerol      | 56-81-5   | No potential for bioaccumulation    | <i>LogKow=-0.244 - 0.046</i> |  |
| Food yellow 3 | 2783-94-0 | Potential for a low bioaccumulation | BCF=3.2                      |  |
| Acid red 18   | 2611-82-7 | No potential for bioaccumulation    | LogKow=-2.267                |  |

# 12.4 Mobility in soil

| Component     | Cas No.   | Soil Organic Carbon-WaterPartitioning Coefficient (Koc) |  |  |  |
|---------------|-----------|---|--|--|--|
| Glycerol      | 56-81-5   | Koc=1   |  |  |  |
| Food yellow 3 | 2783-94-0 | Koc=25110   |  |  |  |
| Acid red 18   | 2611-82-7 | Koc=3.16  |  |  |  |

# 12.5 Results of PBT and vPvB assessment

| PBT  | Not Applicable |
|------|----------------|
| vPvB | Not Applicable |

#### 12.6 Endocrine Disruption Properties

None of the ingredients ( $\geq 0.1\%$ ) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

#### 12.7 Other adverse effects

No further relevant information available.

# SECTION 13 Disposal considerations

#### 13.1 Waste treatment methods

| Product / Packaging disposal       Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each us laws operating in their area. In some areas, certain wastes must be tracked.         1. Do not allow wash water from cleaning or process equipment to enter drains.         2. It may be necessary to collect all wash water for treatment before disposal.         3. Recycle wherever possible         4. Consult manufacturer for recycling options or consult local or regional waste management authority for suitable treatment or disposal facility can be identified. |  |
|---|--|
| Waste treatment options No further relevant information available.  |  |
| Sewage disposal options   | No further relevant information available. |

## SECTION 14 Transport information

| Water based dye ink-Bright orange                |   | Version:1.1 Revision Date: 2023/06/ |  |  |  |  |
|--|---|-------------------------------------|--|--|--|--|
| 14.1 UN-Number                                   |   |                                     |  |  |  |  |
| ADR/RID/ADN, IMDG, IATA                          | Not Applicable                                  |                                     |  |  |  |  |
| 14.2 UN proper shipping name                     |   |                                     |  |  |  |  |
| ADR/RID/ADN, IMDG                                | Not Applicable                                  |                                     |  |  |  |  |
| IATA   | Not Applicable                                  |                                     |  |  |  |  |
| 14.3 Transport hazard class(es)                  |   |                                     |  |  |  |  |
| ADR/RID/ADN, IMDG, IATA                          | Not Applicable                                  |                                     |  |  |  |  |
| Class  | Not Applicable                                  |                                     |  |  |  |  |
| Label  | Not Applicable                                  |                                     |  |  |  |  |
| 14.4 Packing group                               |   |                                     |  |  |  |  |
| ADR/RID/ADN, IMDG, IATA                          | Not Applicable                                  |                                     |  |  |  |  |
| 14.5 Environmental hazards                       |   |                                     |  |  |  |  |
| Not Applicable                                   |   |                                     |  |  |  |  |
| 14.6 Special precautions for user                |   |                                     |  |  |  |  |
| Not Applicable                                   |   |                                     |  |  |  |  |
| 14.7 Transport in bulk according to A            | nnex II of Marpol and the IBC Code              |                                     |  |  |  |  |
| Not Applicable                                   |   |                                     |  |  |  |  |
| 14.8 Transport/Additional information            | 1   |                                     |  |  |  |  |
| Not dangerous according to the above             | specifications.                                 |                                     |  |  |  |  |
| UN "Model Regulation"                            | Not Applicable                                  |                                     |  |  |  |  |
|  |   |                                     |  |  |  |  |
| SECTION 15 Regulatory info                       | rmation   |                                     |  |  |  |  |
| 15.1 Safety, health and environmental            | regulations/legislation specific for the substa | nce or mixture                      |  |  |  |  |
| Directive 2012/18/EU                             |   |                                     |  |  |  |  |
| Named dangero                                    | us substances -ANNEX I                          | None of the ingredients is listed   |  |  |  |  |
| Other regulations, limitations and prohibitive r | egulations                                      |                                     |  |  |  |  |
| SVHC CandidateList of REA                        | ACH Regulation Annex XIV Authorisation          | None of the ingredients is listed.  |  |  |  |  |
| REACH Regulati                                   | on Annex XVII Restriction                       | None of the ingredients is listed.  |  |  |  |  |
|  |   |                                     |  |  |  |  |

#### 15.2 Chemical safety assessment

A Chemical Safe Assessment has not been carried out.

**REACH Regulation Annex XIV Authorization List** 

# 15.3 International chemical inventory

| Component             | EINECS     | TSCA   | DSL    | IECSC  | NZIoC  | PICCS  | KECI   | AICS   |
|-----------------------|------------|--------|--------|--------|--------|--------|--------|--------|
| Glycerol              | Listed     | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Food yellow 3         | Listed     | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Polyvinyl pyrrolidone | Not Listed | Listed |
| Acid red 18           | Listed     | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Water                 | Listed     | Listed | Listed | Listed | Listed | Listed | Listed | Listed |

[EINECS] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

None of the ingredients is listed.

#### Water based dye ink-Bright orange

[IECSC] China Inventory of Existing Chemical Substances
[NZIOC] New Zealand Inventory of Chemicals
[PICCS] Philippines Inventory of Chemicals and Chemical Substances
[KECI] Existing and Evaluated Chemical Substances
[AICS] Australia Inventory of Chemical Substances

# SECTION 16 Other information

#### 16.1 Information on revision

| Creation Date        | 2023/06/21 |
|----------------------|------------|
| <b>Revision Date</b> | 2023/06/21 |
| Reason for revision  | _          |

#### 16.2 Abbreviations and acronyms

SCL:Specific Concentration limits ATE: Acute Toxicity Estimates Cas : Chemical Abstracts Service PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances NOEC: No Observed Effect Concentration BCF: BioConcentration Factors ELINCS: European List of Notified Chemical Substances DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

#### 16.3 Further information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

#### DISCLAIMER OF LIABILITY:

This Safety Data Sheet (SDS) was prepared according to REACH Regulation The data included was derived from international authoritative data base and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.