

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING 物质安全标识

#### 1.1 Product identifiers

**Product name:** Aqueous Sublimation ink

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

**Identified uses:** Inkjet printing

**Uses advised against:** None known.

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

**Company:** TRENDVISION TECHNOLOGY CO., LTD.

No. 3, Ding Wan 7 Road Ding Jia Wan Industrial Park, Sanzao District, Zhuhai, Guangdong,  
China.519040

**Telephone:** 86-756-3363334

**Fax:** 86-756-3363600

**E-mail address:** was2001sang@163.com

#### 1.4 Emergency telephone number

**Emergency Phone:** 86-756-3363334

### 2. HAZARDS IDENTIFICATION 危险识别

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008**

#### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008**

The mixture has not to be labeled as hazardous according to Regulation (EC) no. 1272/2008.

**Hazard pictograms:** None

**Signal word:** None

**Hazard statement(s):** None

**Precautionary statement(s):** None

#### 2.3 Other hazards

No information available.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 3. COMPOSITION/INFORMATION ON INGREDIENTS 成分信息

#### 3.1 Mixture

**General information:** Organic dye stuffs, organic solvents and additives solubilized in water.

**Information on components:**

Chemical Name	CAS-No.	EC-No.	% [w/w]	Classification according to Regulation (EC) No.1272/2008 (CLP)
Glycerol	56-81-5	200-289-5	< 30	Eye Irrit. 1; H318
Sorbitolum	50-70-4	200-061-5	< 20	Not classified
Disperse Brown 27	63741-10-6	264-439-1	< 5	Acute Tox. 4; H30 Skin Sens 2; H315
Disperse Blue 359	62570-50-7	263-606-6	< 5	Acute Tox. 4; H30 Skin Sens 2; H315
Disperse Red 60	17418-58-5	241-442-6	< 5	Acute Tox. 4; H30 Skin Sens 2; H315
Disperse Yellow 54	12223-85-7	231-474-9	< 5	Acute Tox. 4; H30 Skin Sens 2; H315
Disperse Blue 359	62570-50-7	263-606-6	< 1	Acute Tox. 4; H30 Skin Sens 2; H315
Disperse Red 60	17418-58-5	241-442-6	< 1	Acute Tox. 4; H30 Skin Sens 2; H315
Water	7732-18-5	-	< 60	Not classified

### 4. FIRST AID MEASURES 紧急措施

#### 4.1 Description of first aid measures

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Skin contact:** Immediately flush with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. If swelling or redness occurs, call a physician.

**Eye Contact:** Do not rub eyes. Immediately flush eyes with plenty of water at least 15 minutes. Hold eyelids open during flushing. Call a physician.

**Ingestion:** If swallowed, do not induce vomiting. Seek immediate medical advice.

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

No data available.

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

No data available.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### **5. FIRE FIGHTING MEASURES 消防措施**

#### **5.1 Extinguishing media**

**Suitable extinguishing media:** Use Dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media:** None known.

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

Exposure to decomposition products may cause a health hazard.

#### **5.3 Advice for fire fighters**

No data available.

### **6. ACCIDENTAL RELEASE MEASURES 意外释放的措施**

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

Wear appropriate personal protective equipment like safety glasses, gloves and clothes (see section 8).  
Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not flush into surface water or sanitary sewer system.

#### **6.3 Methods and materials for containment and cleaning up**

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **7. HANDLING AND STORAGE 处理和存储**

#### **7.1 Precautions for safe handling**

Handle with the usual precautions for industrial chemical. Avoid contact with skin, eyes and clothing.

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

Do not store the product in high or freezing temperatures. Keep the product out of direct sunlight. Do not store the product with oxidizing agents or explosives.

#### **7.3 Specific end uses**

No data available.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION 暴露控制/人员保护**

#### **8.1 Control parameters**

**Components with workplace control parameters**

*Glycerol (CAS 56-81-5):*

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

MAK	Short-term value: no data available, inhalable aerosol (Germany, Switzerland) Long-term value: no data available, inhalable aerosol (Germany, Switzerland)
DNEL	Employee, long-term exposure, systemic effects, dermal: 33mg/m <sup>3</sup> Employee, long-term exposure, systemic effects, inhalation: 56mg/m <sup>3</sup> Consumer, long-term exposure, systemic effects, dermal: no data available Consumer, long-term exposure, systemic effects, inhalation: 33mg/m <sup>3</sup>
PNEC	Freshwater: 0.885mg/l Marine water: 0.0885mg/l Intermittent release: 8.85mg/l STP: 1000mg/l Sediment (freshwater): 3.3mg/kg Soil: 0.141mg/kg

All "MAK" values concerning the workplace parameters are according to the following national Institutions:

AUVA (Austria), Belgian Federal Public Service Employment, Labour and Social Dialogue (Belgium), ENI Corporate (Italy), Eurofins Danmarks A/S (Denmark), FIOH (Finland), HSL (Great Britain), INRS (France), ITM (Sweden), INSHT (Spain), NIOM (Poland), NFSZ (Hungary), SUVA (Switzerland), DFG (Germany)

### 8.2 Exposure controls

**Appropriate engineering controls:** Use in a well ventilated area.

#### Personal protective equipment

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 9. PHYSICAL AND CHEMICAL PROPERTIES (物理、化学性质)

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

##### Appearance:

Physical state:	Liquid
Color:	Black / Cyan / Magenta / Yellow/Light Cyan/Light Magenta
Odor:	No information available Odor
Odor Threshold:	No data available
PH:	7.0-10.0 at 20°C / 68°F
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Not determined
Flash point:	Not detected until 95°C / 203°F (close cup, ASTM D3278)
Evaporation rate:	Not determined
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	Lower limit: Not determined Upper limit: Not determined
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.08 at 20°C / 68°F
Water solubility:	Complete
Partition coefficient, n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (kinematic):	Less than 5mPa's
Explosive properties:	No data available
Oxidizing properties:	No data available

#### 9.2 Other safety information

No relevant additional information available.

### 10. STABILITY AND REACTIVITY (稳定性、反应性)

#### 10.1 Reactivity

No reactivity under normal temperature.

#### 10.2 Chemical stability

Stable under normal temperature.

#### 10.3 Possibility of hazardous reactions

No expected.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 10.4 Conditions to avoid

High and freezing temperature.

### 10.5 Incompatible materials

Oxidizers and explosives.

### 10.6 Hazardous decomposition products

None under normal temperature.

## 11. TOXICOLOGICAL INFORMATION (毒性资料)

### 11.1 Information on toxicological effects

<b>Acute toxicity Oral LD<sub>50</sub>:</b>	>5000mg/kg(rats).
<b>Acute toxicity Dermal LD<sub>50</sub>:</b>	>2000mg/kg(rats).
Irritation Eye:	No data available
Irritation Skin:	No data available
Corrosivity:	No data available
Sensitization:	No data available
Carcinogenicity:	No data available
Mutagenicity:	No data available
Reproduction toxicity:	No data available

## 12. ECOLOGICAL INFORMATION 生态信息

### 12.1 Toxicity

There are no data available for the mixture itself.

#### Information on components under section 3:

<i>Glycerol</i> : Acute toxicity:	Fish: LC50 >27860mg/l (Pimephalespromelas; 96h) Daphnia and aquatic invertebrates: EC50 >100mg/l (Daphnia magna; 48h) Alga: EC5>10000mg/l (Scenedesmusquadricauda; 192h)
<i>Glycerol</i> : Acute toxicity:	Fish: LC50 >54000mg/l (Oncorhynchus mykiss; 96h) Daphnia and aquatic invertebrates: EC50 >10000mg/l (Daphnia magna; 24h) Alga: EC3>10000mg/l (Scenedesmusquadricauda; 192h)

### 12.2 Persistence and degradability

There are no data available for the mixture itself.

#### Information on components under section 3:

<i>Ethylene glycol</i> :	Readily biodegradable.
<i>Glycerol</i> :	Readily biodegradable.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 12.3 Bio accumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed as PBT or vPvB.

### 12.6 Other adverse effects

No data available.

### 12.7 Additional Information

No data available.

## 13. DISPOSAL CONSIDERATIONS 处理事项

### 13.1 Waste treatment methods

**Product:** Disposal should be in accordance with local, state or national legislation.  
For example: by incineration in a suitable plant.

**Contaminated packaging:** Non-cleanable packaging should be treated as the product itself. Dispose of as unused product.

## 14. TRANSPORT INFORMATION 运输

Not classified as dangerous for ADR/RID, ADR/ADNR, IMDG, IATA.

### 14.1 UN number

Not applicable.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packaging group

Not applicable.

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

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

Not available.

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

### 15. REGULATORY INFORMATION 监管信息

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and their changes.

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

Not available.

#### 15.2 Chemical Safety Assessment

Not available.

### 16. OTHER INFORMATION 其他信息

#### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The users working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. It does not represent any guarantee of the properties of the product. Trendvision Technology and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

#### List of abbreviations and acronyms that may be but not necessarily used in this safety datasheet:

ACGIH: American Conference of Governmental Industrial Hygienists  
BEI: Biologischer Expositionsindex  
BAT: Biologischer Arbeitsstoff-Toleranzwert (biological tolerance value)  
CAS: Chemical Abstracts Service  
CMR: Carcinogenic, Mutagenic or Toxic for Reproduction  
Ecxx: Effective Concentration  
FG: food grade  
GHS: Harmonized System of Classification and Labeling of Chemicals  
H-Phrase: H-statement  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation International Air Transport Association  
ICAO: International Civil Aviation Organization  
ICAO-TI (ICAO): International Civil Aviation Organization  
IC: Inhibitory Concentration  
IMDG: International Maritime Code for Dangerous Goods  
ISO: International Organization for Standardization  
LC: Lethal Concentration  
LD: Lethal Dose  
logPow: Octanol / water partition coefficient  
OECD: Organization for Economic Co-operation and Development  
AGW: Arbeitsplatzgrenzwert (N.O.S.)  
PBT: Persistent, bioaccumulative and toxic  
PEC: Predicted Effect Concentration  
PEL: Permissible Exposure Limits  
PNEC: Predicted No Effect Concentration  
PSA: Persönliche Schutzausrüstung  
P-Phrases: P-statement  
NOEL: No Observed Effect Level



## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Date 25.05.2021

NOAEL: No Observed Adverse Effect Level  
STEL: Short-term exposure limit  
STOT: Specific Target Organ Toxicity  
TLV: Threshold Limit Value  
TWA: Time-weighted average  
vPvB: Very Persistent and Very Bioaccumulative  
WEL: Workplace Exposure Level  
MAK: MaximaleArbeitsstoffkonzentration (maximum workplace concentration)  
ADNR: Regulation on the transport of dangerous goods on the Rhine  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
CLP: Classification, Labeling and Packaging  
CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DNEL: Derived No Effect Level  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Concerning the International Transport of Dangerous Goods by Rail  
WGK: Deutsche Wassergefährdungsklasse (German water hazard class)  
AUVA: AllgemeineUnfallversicherungsanstalt, Austria  
FIOH: Finnish Institute of Occupational Health, Finland  
HSL: Health and Safety Laboratory, Great Britain  
INRS: Institut National de Rechercheet de Sécurité, France  
ITM : Institute for Applied Environmental Research, Air Pollution Laboratory, Sweden  
INSHT: Instituto Nacional de Seguridad e Higieneen el Trabajo, Spain  
NIOSH: National Institute for Occupational Safety and Health, USA  
NIOM: Nofer Institute of Occupational Medicine, Poland  
NFSZ: NemzetiMunkaügyiHivatal, Hungary  
SUVA: SchweizerischeUnfallversicherung, Switzerland  
DFG: Deutsche Forschungsgemeinschaft (Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area), Germany

