

# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Siraya Tech Fast Tough

Creation date 30th Dec 2024  
Revision date Version 4.0

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

#### 1.1. Product identifier

Product name: Siraya Tech Fast ABS-Like Tough Navy Grey 3D Printer Resin 1kg

other name: Siraya Tech Fast Tough resin

Substance / mixture mixture  
UFI: KWGA-SVTG-P20S-7GDE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use

**Mixture uses advised against**  
not available

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

##### Manufacturer

Name or trade name: Siraya Tech  
Address: 15806 Clarkgrove St, Hacienda Heights, CA USA, 91745  
EU VAT Reg No: IT12299250964  
Phone +1 3234128788  
E-mail: support@siraya.tech  
Web address: siraya.tech

##### Competent person responsible for the safety data sheet

Name Emma Wang  
E-mail support@siraya.tech

#### 1.4. Emergency telephone number

European emergency number: 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

Skin Sens. 1A, H317  
Eye Irrit. 2, H319  
Eye Dam. 1, H318  
Oral. 2 H302

Full text of all classifications and hazard statements is given in the section 16.

#### 2.2. Label elements

##### Hazard pictogram


**Signal word**

Warning

**Hazardous substances**

Propylidynetrimethanol, ethoxylated, esters with acrylic acid  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  
1-(Morpholin-4-yl)propenone

**Hazard statements**

H302, H373 Harmful if swallowed  
H317 May cause an allergic skin reaction.  
H318, H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P264 Wash hands and exposed parts of the body thoroughly after handling.  
P280 Wear protective gloves.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to be by handing over to the person authorized to dispose of waste or by returning to the supplier.

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers                                         | Substance name                                                                                                                     | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------|------|
| CAS: 28961-43-5<br>EC: 500-066-5                               | Propylidynetrimethanol, ethoxylated, esters with acrylic acid                                                                      | 30-70               | Skin Sens. 1, H317<br>Eye Irrit. 2, H319                 |      |
| CAS: 73324-00-2<br>EC: 615-966-4                               | 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 1,1'-methylenebis(4-isocyanatocyclohexane) and .alpha.,.alpha.'.alpha."-1,2,3 | 30-55               | Eye Irrit. 2, H319                                       |      |
| CAS: 5117-12-4<br>EC: 418-140-1                                | 1-(Morpholin-4-yl)propenone (4-Acryloylmorpholine)                                                                                 | 10-16               | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Oral. 4 H302   |      |
| Index:<br>015-189-00-5<br>CAS:<br>162881-26-7<br>EC: 423-340-5 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide                                                                                 | 0.1                 | Skin Sens. 1A, H317<br>Aquatic Chronic 4, H413           |      |

Full text of all classifications and hazard statements is given in the section 16.

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

### **4.1. Description of first aid measures**

**Inhalation:** If overcome by exposure, give fresh oxygen or artificial respiration as needed.

**Skin contact:** Immediately remove contaminated clothing. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

**Eyes contact:** In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Consult medical professionals if irritation persists.

**Ingestion:** If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Consult medical professionals if irritation persists.

The protection of first-aiders: Wear C class protective equipment and first aid in safety area.

Notes to physicians: Slight skin irritation, Symptoms may include localized redness or rash and swelling of the affected area, Symptoms may be delayed.

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

#### **If inhaled**

not available

#### **If on skin**

Slight skin irritation / rash.

#### **If in eyes**

Eye irritation

#### **If swallowed**

Stomach irritation

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

Notes to physicians: Slight skin irritation, Symptoms may include localized redness or rash and swelling of the affected area, Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Suitable fire extinguishing media: Water, foam, carbon dioxide or dry chemical.

#### **Unsuitable extinguishing media**

not available

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

not available

### **5.3. Advice for firefighters**

Treated as the substance as common plastic

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

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

Recommend Wear proper protective equipment, avoid raw material contact and breathing mask is optional for vapor inhalation as the substance has minimal vapor release.

### **6.2. Environmental precautions**

Dispose/report per regulatory requirements.

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

Soapy water and degreaser is sufficient for cleaning up

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

not available

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

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

Check for leakages and

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

Storage procedures: Store drums above 10°C/50°F and below 32°C/90°F. Bulk storage temperature

range:15-27°C/59-80°F. Store drums away from heat sources, strong oxidizers, radiation and other initiators. Use product within six months of receipt for optimum results. If material freezes, heat and mix to redistribute the inhibitor. Product may also be heated to facilitate handling. Heat product container slowly to 40°C/104°F for not more than 24 hours. Convection ovens or warm water bath (preferred due to more efficient heat transfer) are recommended for heating. Do not use drum heater. The facility should be enclosed with no direct sunlight and exposure to UV lights.

### **7.3. Specific end use(s)**

not available

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

### **8.1. Control parameters**

Exhaust waste gas to outdoor, and take applicable measure to protect environment.

Using local exhaust ventilation and closed processing system when mass production.

Complement exhaust air by ventilation system with supply plenty fresh air.

### **8.2. Exposure controls**

not available

#### **Eye/face protection**

Common Safety Goggle to protect eyes from splashes but this is a rare occurrence.

#### **Skin protection**

Nitrile gloves

#### **Respiratory protection**

None required

#### **Thermal hazard**

None required

#### **Environmental exposure controls**

not available

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

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

Physical state liquid

Colour data not available

Odour data not available

Melting point/freezing point data not available

Boiling point or initial boiling point and boiling range 110 °C

Flammability data not available

Lower and upper explosion limit data not available

Flash point 140 °C

Auto-ignition temperature data not available

Decomposition temperature data not available

pH 6.8-7 (undiluted)

Kinematic viscosity 100 mm<sup>2</sup>/s at 40 °C

Solubility in water data not available

Partition coefficient n-octanol/water (log value) data not available

Vapour pressure data not available

Density and/or relative density data not available

Relative vapour density data not available

Particle characteristics data not available

### **9.2. Other information**

Corrosion rate 0 mm/year at 55 °C

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

### **10.1. Reactivity**

Only react to exposure of UV light

### **10.2. Chemical stability**

Stable on normal condition

### **10.3. Possibility of hazardous reactions**

None

### **10.4. Conditions to avoid**

not available

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

No significant signs or symptoms indicative of any adverse health hazard are expected to occur at standard conditions due to the low volatility of this material. However, aerosols, or vapors which may be generated at elevated processing temperatures, may cause respiratory tract irritation. Symptoms of irritation may include coughing, mucous production and shortness of breath.

**Acute toxicity**

None

**Skin corrosion/irritation**

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a skin irritant. Symptoms of irritation may include redness or rash, swelling of the affected area and blistering. Repeated or prolonged skin contact may cause a more severe skin response such as ulcers and scarring. Symptoms of skin exposure may be delayed 24-48 hours. Although no appropriate human or animal health effects data is known to exist, this material may cause an allergic skin reaction

**Serious eye damage/irritation**

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause eye irritation. May cause moderate irritation with symptoms including burning sensation, tearing, redness or swelling.

**Respiratory or skin sensitisation**

not available

**Germ cell mutagenicity**

not available

**Carcinogenicity**

not available

**Reproductive toxicity**

not available

**Toxicity for specific target organ - single exposure**

not available

**Toxicity for specific target organ - repeated exposure**

not available

**Aspiration hazard**

not available

**11.2. Information on other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**SECTION 12: Ecological information****12.1. Toxicity**

not available

**12.2. Persistence and degradability**

not available

**12.3. Bioaccumulative potential**

not available

**12.4. Mobility in soil**

not available

#### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. **12.7. Other adverse effects**

not available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

##### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

not subject to transport regulations

#### 14.2. UN proper shipping name

not relevant

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

not relevant

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

not relevant

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

not relevant

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

not available

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H317 May cause an allergic skin reaction.

H318,H319 Causes serious eye irritation.

H413 May cause long lasting harmful effects to aquatic life.

H302, H373 Harmful if swallowed

#### Guidelines for safe handling used in the safety data sheet

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

P264 Wash hands and exposed parts of the body thoroughly after handling. P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

#### **Other important information about human health protection**

not available

#### **Key to abbreviations and acronyms used in the safety data sheet**

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor

CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

EC Identification code for each substance listed in EINECS

EINECS European Inventory of Existing Commercial Chemical Substances EmS Emergency plan

EU European Union

EuPCS European Product Categorisation System

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods

IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients

ISO International Organization for Standardization

IUPAC International Union of Pure and Applied Chemistry

log Kow Octanol-water partition coefficient

OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Eye Irrit. Eye irritation

Skin Sens. Skin sensitization

#### **Training guidelines**

not available

#### **Recommended restrictions of use**

not available

#### **Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.

REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers. **The changes (which information has been added, deleted or modified)**

The version 4.0 replaces the SDS version from 26 August 2023. Changes were made in sections 2 and 16.