# SAFETY DATA SHEET

**Revision Number** 1

1. IDENTIFICATION OF	THE SUBSTANCE/PRE	PARATION AND THE COMPANY	/UNDERTAKING
GHS product identifier			
Product Name	UVR-110W		
Other means of identification			
Product Code(s)	400230		
Synonyms	None		
Recommended use of the chem	nical and restrictions on use		
Recommended Use	UV Cure Legend Ink		
Uses advised against	No information available		
Supplier's details			
<b>Supplier Address</b> Taiyo America, Inc. 2675 Antler Drive Carson City, NV 89701 TEL: 775-885-9959 (M-F 8-4	4 PDT)		
Email SDSinfo@taiyo-america.co	om		
Emergency telephone number			
Emergency Telephone Number	1-800-255-3924 (USA)	1-813-248-0585 (International)	
	2. HAZARDS I	DENTIFICATION	
Classification			

Revision Date 11-Jan-2023

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1

# GHS Label elements, including precautionary statements

**Emergency Overview** 

Signal Word

Warning

Hazard Statements

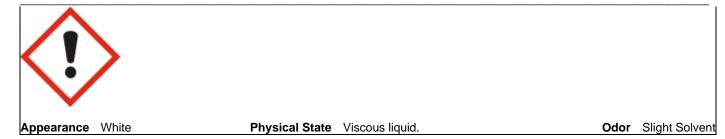
Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Issuing Date 13-May-2015

• May cause an allergic skin reaction



### **Precautionary Statements**

### Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

### **General Advice**

· Specific treatment (see supplemental first aid instructions on this label)

### Eyes

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

• If eye irritation persists: Get medical advice/attention.

### Skin

- Take off contaminated clothing and wash before reuse.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.

### Ingestion

- · Rinse mouth.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage

• None

### Disposal

· Dispose of contents/container to an approved waste disposal plant.

### Hazard Not Otherwise Classified (HNOC)

Not applicable

### Other information

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade secret
Talc	14807-96-6	10-30	*
Trimethylolpropane triacrylate	15625-89-5	10-30	*
Titanium dioxide	13463-67-7	10-30	*
2-Hydroxyethyl methacrylate	868-77-9	5-10	*
Silicon dioxide	7631-86-9	1-5	*
Diethylene glycol dimethacrylate	2358-84-1	<1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

### Description of necessary first-aid measures

General Advice	Immediate medical attention is required. If symptoms persist, call a physician.		
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.		
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.		
Inhalation	Move to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.		
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.		
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.		
Most important symptoms/effects, a	acute and delayed		
Most Important Symptoms/Effects	No information available.		
Indication of immediate medical attention and special treatment needed, if necessary			

Notes to Physician

Treat symptomatically. May cause sensitization of susceptible persons.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Water spray. Foam. Dry powder.

Unsuitable Extinguishing Media No information available.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.
Environmental Precautions	
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

StorageKeep in properly labeled containers. Keep out of the reach of children. Keep containers<br/>tightly closed in a dry, cool and well-ventilated place.

### Incompatible Products Oxidizing agents. Peroxides. Free radical initiators

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Talc 14807-96-6	TWA: 2 mg/m <sup>3</sup>	(vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> containg no asbestos and <1% quartz TWA: 2 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	<ul> <li>(vacated) TWA: 0.1 mg/m<sup>3</sup> respirable dust</li> <li>(30)/(%SiO2 + 2) mg/m<sup>3</sup> TWA total dust</li> <li>(250)/(%SiO2 + 5) mppcf TWA respirable fraction</li> <li>(10)/(%SiO2 + 2) mg/m<sup>3</sup> TWA respirable fraction</li> </ul>	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
Silicon dioxide 7631-86-9	10 mg/m <sup>3</sup>	20 mppcf TWA; ((80)/(% SiO2) mg/m <sup>3</sup> )	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

#### **Appropriate engineering controls**

### Engineering Measures Showers Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

Eye/Face Protection Skin and Body Protection Respiratory Protection	Safety glasses with side-shields. Protective gloves. Lightweight protective clothing. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn
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### **Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Odor	Viscous liquid Slight Solvent	Appearance Odor Threshold	White No information available
<u>Property</u> pH	<u>Values</u> No data available	<u>Remarks/</u> None known	<u>Method</u>
Melting Point/Range	No data available	None known	
Boiling Point/Boiling Range	No data available	None known	
Flash Point	>200 °C / >392		
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	No data available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octane		None known	
Autoignition Temperature	No data available	None known	
Decomposition Temperature	No data available	None known	
Viscosity	No data available	None known	
Flammable Properties	Combustible material	: may burn but does not ignite re	eadily.
Explosive Properties	No data available		
Oxidizing Properties	No data available		
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Other information			
VOC Content (%)	0		

# **10. STABILITY AND REACTIVITY**

### Reactivity

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Incompatible products.

### **Incompatible materials**

Oxidizing agents. Peroxides. Free radical initiators

#### Hazardous decomposition products

Carbon oxides. Thermal decomposition can lead to release of irritating gases and vapors.

# **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Product Information	
Inhalation	There is no data available for this product.
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes skin irritation.
Ingestion	Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trimethylolpropane triacrylate	> 5000 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	-
Quartz	= 500 mg/kg (Rat)	-	-
Titanium dioxide	> 10000 mg/kg (Rat)	-	> 6820 mg/m <sup>3</sup>
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	>3000 mg/kg (Rabbit)	-
Silicon dioxide	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>2.2 mg/L (Rat)4 h

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationMay cause an allergic skin reaction.Mutagenic EffectsNo information available.CarcinogenicityThis product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		Х
Silicon dioxide		Group 3		

### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

### IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

### NTP: (National Toxicity Program)

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)** X - Present

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity	Avoid repeated exposure. Repeated contact may cause allergic reactions in very
	susceptible persons.

Target Organ Effects	Respiratory system. Eyes. Lungs.		
Aspiration Hazard	No information available.		

# Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:LD50 Oral1468 mg/kgLD50 Dermal5003 mg/kg mg/L

# 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Talc		LC50 96 h: > 100 g/L		
14807-96-6		semi-static (Brachydanio		
		rerio)		
2-Hydroxyethyl methacrylate		LC50 96 h: 213-242 mg/L		
868-77-9		flow-through (Pimephales		
		promelas)		
		LC50 96 h: = 227 mg/L		
		(Pimephales promelas)		
Silicon dioxide	EC50 72 h: = 440 mg/L	LC50 96 h: = 5000 mg/L		EC50 48 h: = 7600 mg/L
7631-86-9	(Pseudokirchneriella	static (Brachydanio rerio)		(Ceriodaphnia dubia)
	subcapitata)			

Persistence and Degradability No information available.

# **Bioaccumulation**

Chemical Name	Log Pow
2-Hydroxyethyl methacrylate	0.47

### **Other Adverse Effects**

No information available.

13. DISPOSAL CONSIDERATIONS				
Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.			
Contaminated Packaging	Do not re-use empty containers.			
	14. TRANSPORT INFORMATION			
DOT	Not regulated			
IATA	Not regulated			
IMDG/IMO	Not regulated			
15. REGULATORY INFORMATION				
International Inventories TSCA EINECS	Complies Complies			

Complies

ELINCS

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA	311	/312	2 Hazard	Categories
				_

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# U.S. State Regulations

# California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen
Quartz	14808-60-7	Carcinogen

### U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Talc	Х	Х	Х		Х
Quartz	Х	Х	Х	-	Х
Titanium dioxide	Х	Х	Х	-	Х

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 1	Physical Hazard 0	Personal Protection X
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501			
Issuing Date	13-May-2			

### Revision Date Revision Note

11-Jan-2023 Updated Contact Information

### General Disclaimer

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