



## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

**Product Name** : UV CURE Yellow Ink

**Product #** : SB.UV17.4000

**Material Uses** : Ink for use in an ink jet process.

**Manufacturer** : STS Inks LLC., 8300 Congress Ave., Boca Raton, FL 33487  
Phone: 561-999-8818  
Fax: 561-999-8828  
Emergency: 561-419-7111  
[www.stsrefill.com](http://www.stsrefill.com)

### 2. HAZARD IDENTIFICATION

**Signal Word:** WARNING

**Classifications:** Respiratory or skin sensitization.(Category 1)

Acute aquatic toxicity. (Category 2)

Acute oral toxicity. (Category 4)

**Labeling:**



**Symbol(s):**  
Sensitizer

**Hazard Statements:**

H302: Harmful if swallowed.

H317: May cause allergic skin reaction.

H401: Toxic to aquatic life.

**Precautionary Statements:**  
PREVENTION:

P270: Do not eat, drink or smoke when using this product.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

**RESPONSE:**

P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs, seek medical attention.

P321: Specific treat(see section on the first aid.

P363: Wash contaminated clothing before reuse.

**DISPOSAL:**

P501: Dipose of contents/container to an approved wate disposal plant.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

<b><u>CAS Number</u></b>	<b><u>Percent (%)</u></b>	<b><u>Chemical Name</u></b>
1) Trade Secret	1-70	Acrylates
2) Trade Secret	1-5	Proprietary Pigment
3) 2235-00-9	1-15	2H-Azepin-2-one
4) 71868-10-5	1-10	Aromatic Ketone
5) N230*	1-5	1,4 Butanediol Divinyl Ether

### 4. FIRST AID MEASURES

<b>Inhalation</b>	: If inhaled move to fresh air. IRespiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.
<b>Ingestion</b>	: Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to nduce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Skin Contact</b>	: In case of contact, immediately flush skin with plenty of water while removing contaminated clothes and shoes. Wash clothing before reuse. Get medical attention if symptoms appear.

**Eye Contact** : Do not rub eyes. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

## 5. FIRE-FIGHTING MEASURES

**Flammable Properties** : Flash Point > 214 Deg F  
**Autoignition Temperature** : No limits available.  
**Extinguishing Media** : Water, CO<sub>2</sub>, foam, dry chemical.  
**Special Fire-fighting Procedures** : Fire fighters and others who may be exposed to the products of combustions should be equipped with NIOSH approved positive pressure self-contained breathing apparatuses and full protective clothing.  
**Hazardous Combustion Products** : Subjecting this material to conditions that will cause decomposition may cause hazardous or toxic substances to be emitted which may include but is not limited to, CO, NOx and the particulate matter.

## 6. ACCIDENTAL RELEASE MEASURES

**Small Spill** : Wear P.P.E as recommended in this document. Use spill barriers to avoid spreading and to block drains. Avoid using water until all liquid material has been absorbed. We recommend PIG LITE DRI, cat litter or pads. Apply and absorbent over the spill and collect. Place in containers or bags for further processing. Non-hazardous waste. Non-RCRA waste. May stain concrete surfaces. Scrub with soap and water or pressure wash to remove.

**Large Spill** : Wear P.P.E as recommended in this document. Use spill barriers to avoid spreading and to block drains. Avoid using water until all liquid material has been absorbed. We recommend PIG LITE DRI, cat litter or pads. Apply and absorbent over the spill and collect. Place in containers or bags for further processing. Non-hazardous waste. Non-RCRA waste. May stain concrete surfaces. Scrub with soap and water or pressure wash to remove.

**Personal Precautions** : Use all necessary personal protective equipment.  
**Environmental Precautions** : Do not let product enter drains. Do not flush into surface water or sanitary sewer systems.  
**Methods for Cleaning Up** : Avoid using water until all liquid material has been absorbed. Use barriers to avoid spreading and to block drains. Scrub with soap and water or pressure wash to remove. Notify your local water treatment facility if spilled material reaches a sewer. Notify the authorities if the spilled material reaches an open body of water, stream or river.

## 7. HANDLING AND STORAGE

<b>Handling</b>	: Protect from freezing. Store in a cool(not above 100F), dry, well ventilated area. This product contains chemicals that polymerize when exposed to UV light/radiation making them susceptible to hardening. DO not store unused for more than six months.
<b>Storage</b>	: Keep out of the reach of children. Store at room temperature. Shelf life: minimum 12 months. Avoid freeze and thaw cycles.
<b>Packaging Materials</b>	: Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Airborne Exposure Limits:** : No limits are available.

**Engineering Controls** : A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion into the general work area. Please refer to the ACGIH document; Industrial Ventilation: A manual of Recommended Practices, most recent edition for details.

### **Personal Protective Equipment**

**Respiratory Protection** : Avoid breathing vapor or mist. When established airborne limits are surpassed wear NIOSH/MSHA approved equipment. Determine the appropriate type of equipment for the specific application by consulting the respirator manufacturer. Observe limitations specified by NIOSH/MSHA or the manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus or a supplied air respirator. Respiratory protection programs must be in compliance with 29CFR 1910. 134.

**Skin Protection** : Wear impervious gloves when handling this material. We recommend nitrile or neoprene or a combination of nitrile over latex. Skin barrier creams are beneficial. Gloves with long cuffs or separate protective arm covers are also recommended.

**Eye Protection** : Wear a full face shield, chemical splash goggles or safety glasses with side shields when handling any chemical.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Yellow
Odor	: Acrylates, characteristic, pungent.
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Specific Gravity	: 1 (Water = 1)
Vapor Density	: >3 (Air = 1)
Vapor Pressure	: Not Determined
Evaporation Rate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: 18 g/l
pH	: No data Available
Flash Point	: No Data Available
Auto-Ignition	: Not Determined
Temperature	
Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w)	: No Data Available
Less Exempt Volatile	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	: This product is stable under recommended conditions of storage and use. Product solidifies when exposed to UV light. Do not expose to UV light until ready for curing. Keep container closed and sealed when not in use.
<b>Conditions to Avoid</b>	: Do not store near ammonia, strong acids, strong bases and oxidizing agents.
<b>Hazardous Decomposition Products</b>	: Subjecting this material to conditions that will cause decomposition may cause hazardous or toxic substances to be emitted which may include but is not limited to, CO, NOXs and particulate matter.
<b>Hazardous Polymerization</b>	: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Serious Eye Damage/Eye Irritation</b>	: Eye irritant.
<b>Skin Irritant</b>	: Skin irritant.
<b>Ingestion</b>	: Gastrointestinal irritant.
<b>Inhalation</b>	: Respiratory tract irritant.
<b>Subchronic</b>	: Short term repeated exposure may cause skin sensitization and allergic reactions.

**Chronic/Carcinogenicity** : Chronic toxicity effects unknown. See below information regarding to carcinogenic classification.

No classification(s).

**NTP** : No classification(s).

**OSHA** : No classification(s).

**Teratology** : Not a suspected teratogen.

**Reproduction** : Not a suspected reproductive toxin.

**Mutagenicity** : Not a suspected mutagen.

**Acute Toxicity** : Overexposure may cause mild irritation of eyes.  
Overexposure of the skin may cause irritation, redness, burning and skin sensitization.  
Breathing mist or vapors may cause respiratory tract irritation.

**Acute Toxicity Estimates:**

**Acute Oral Toxicity** : LD50: 2026 mg/kg(male rat)  
: 1790 mg/kg(female rat)

Method: OECD-Guideline No. 401

**Acute Dermal Toxicity** : LD50: >2000 mg/kg(rat)

Method: 440/2008/EEC B. 3, OECD-Guideline No. 402

**Acute Inhalation Mist** : LC50: 5.82 mg/L (4hr) (rat)

**Skin and Eye**

Skin corrosion/irritation :  
Evaluation : Slightly irritating (P.I.I = 2.0) (rabbit)

Method: OECD-Guideline No.404

Series Eye Damage/Eye Irritation:

Evaluation: Non-irritation (rabbit)

Method: 92/69/ EEC B. 5, OECD-Guideline No.405

Evaluation: Skin Sensitizer(mouse)

Method: OECD-Guideline No. 429 (local lymph node assay)

**STOT- single Exposure** : No data available.  
**STOT- repeated Exposure** : No data available.  
**Routes of Exposure** : Skin absorption, breathing, ingestion, eye contact.

## 12. ECOLOGICAL INFORMATION

### Environmental Fate

**Biodegradation** : Readily Biodegradable.  
Value: BOD 82.1%, TOC 84.4%, GC 100.00%  
Duration of Exposure: 28 days.  
Method: OECD-Guideline No. 301C

**Bioaccumulation** : Log Pow: 1.7  
Method: 92/69/EEC C. 19, OECD-Guideline No. 117

**Mobility** : Very high  
Value: Koc: 15(LogKoc=1.2)  
Method: 2001/59/EEC C.19, OECD-Guideline No. 121

**Ecotoxicity** : Fish: LC50: 6.8 mg/L (Brachydanio rerio)  
Duration: 96 hrs  
Method: 92/69/EEC C.1, OECD-Guideline No. 203

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** : Waste must be disposed of according to the applicable state, federal, and local regulations.

## 14. TRANSPORTATION INFORMATION

Not regulated under United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID

Special precautions : Not listed  
UN Number : Not applicable  
Class : Not applicable  
Proper shipping name : Not applicable  
Packing group : Not applicable  
Marine pollutant : None noted

## 15. REGULATORY INFORMATION

### U.S Federal Regulations

#### OSHA

: Not available.

: This product is classified as an OSHA hazardous material.

### CERCLA: SARA Hazard Category Section 313

: Acute Hazard

: \*Indicates toxic chemical(s) subject to the reporting requirements of the Section 313 of Title III and of 40 CFR 372.

### International Regulations

:

### Canadian WHMIS

: Not available.

### Canadian Environmental Protection Act EINECS

: Not available.

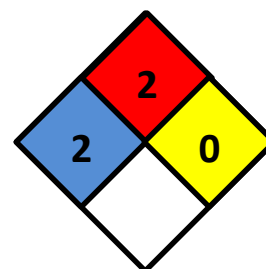
: Not available.

### National Fire Protection Association (United States)

: Health: 2

Flammability: 2

Instability: 0



### State Regulations

: Not available.

### State of California Proposition 65

: This product does not contain proposition 65 listed chemicals that would mandate consumer notification labeling.

## 16. OTHER INFORMATION

### Date of Issue

: October 2015

### Version

: 1.01

### Notice to the Reader:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if or where precautions in addition to those described herein are required. Any health hazard and safety information contained herein should be passed on to your customers or employees. The manufacturer must rely on the user to utilize the information provided to develop guidelines and employee instructional programs for safe use.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared to assist



those working with or handling this product. This information is furnished without any warranty, representation or lincense of any kind. To the best of the manufacturer's knowledge, the information presented by this document is believed to be accurate. The manufacturer does not assume any legal responsibility for the use of the same. Customers are encouraged to conduct their own tests before using any product. Read the label instructions.