



## SAFETY DATA SHEET

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

**Product**

**Name** : Ultra Mild Solvent Yellow Ink

**Product IDN** : SB.UMS.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)

**Data Issued** : December 2017

### 2. HAZARD IDENTIFICATION

#### 2.1 Classifications

Classification according to GHS

Acute Tox.4: H312 Harmful in contact with skin.

Acute Tox.4: H332 Harmful if inhaled.

Skin Irrit.2: H315 Causes skin irritation.

Eye Irritant: H318

Combustible Liquid: H227

#### 2.2 Label Elements:

Labeling according to GHS

**Hazard pictograms**



**Signal Word:** Danger

**Hazard Statements:**

H312:Harmful in contact with skin.  
H315: Causes skin irritation.  
H322: Harmful if inhaled.  
H302: Harmful if swallowed.  
H318: Eye Irritant.  
H336: May cause drowsiness or dizziness.

**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.  
P332+P313+P333: If SKIN IRRITATION OCCURS: Get medical advice/attention.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P403 +P233 Store in a well-ventilated place. Keep container tightly closed.  
P363: Wash contaminated clothing before reuse.

**DISPOSAL:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other Hazards**

Results of PBT and vPvB assessment:

PBT: Not applicable.  
vPvB: Not applicable.

**3 COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Characterization: Mixture  
Inkjet printing ink in organic solvents.

Ingredients	CAS No	EC Number	REACH	Percent(%)	Classification GHS(Rev 5)
Pigment	Trade Secret	Trade Secret	N/A at the moment	1-5	-
2-Ethoxy Ethyl Ether	112-36-7	203-963-7	Registered	40-70	Skin Irrit.2 H315
Propylene Carbonate	108-32-7	203-572-1	Registered	5-15	Eye Irrit. H319
2-Butoxyethyl Acetate	112-07-2	203-933-3	Registered	5-15	H227,H302,H312, H332,H373
Polymer	Trade Secret	Trade Secret	N/A at the moment	1-10	-
Lactone	96-48-0	202-509-5	Registered	5-15	Eye Irritant H302,H318,H336

## 4 FIRST AID MEASURES

### 4.1 Description

- Inhalation** : If inhaled move to fresh air. If respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.  
: Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting.
- Ingestion** : Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Skin Contact** : 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.

#### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed Potential Acute Health Effects**

**Eye Contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin Contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

#### **Over Exposure Signs/Symptoms**

**Eye Contact:** No specific data.

**Inhalation:** No specific data.

**Skin Contact:** No specific data.

**Ingestion:** No specific data.

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

Treat symptomatically.

### **5 FIRE-FIGHTING MEASURES**

#### **5.2 Extinguishing Media**

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide(CO<sub>2</sub>), water spray.

#### **5.3 Special Hazards arising from the substance or mixture**

Carbon Oxides

#### **5.4 Advice for Fire-Fighters**

Use breathing apparatus with independent air supply.

Protective suit.

#### **5.5 Further Information**

Use water spray to cool unopened containers.

#### **5.6 NFPA Ratings**

Health:2 Flammability: 2 Reactivity: 0

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

### **6 ACCIDENTAL RELEASE MEASURES**

#### **6.2 Personal Precautions,Protective Equipment and Emergency Procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate

ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### **6.3 Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Keep in suitable, closed containers for disposal.

#### **6.5 Reference to other sections**

For disposal see section 13.

## **7 HANDLING AND STORAGE**

### **7.1 Handling**

: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition- No smoking.

### **7.2 Conditions for safe storage**

Take measures to prevent the build up of electrostatic charge.

: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **7.3 Specific end uses**

: no data available

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters** : Components with workplace control parameter

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal Protective Equipment**

**[Respiratory Protection]** : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such NIOSH (US) or CEN (EU).

**[Body Protection]** : Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**[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.

**[Eye/face Protection]** : Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Color	: Black
Odor	: Slight odor
Boiling Point/boiling range of ink	: approx. 176°C or higher
Melting Point/melting range	: No data available
Flash Point of ink	: approx. 81°C
Auto-Ignition Temperature	: Not below 220°C
Flammability (solid, gas)	: Not Applicable
Specific Gravity	: 0.975± 0.05 (25°C)
Vapor Density Vapor	: Not Applicable
Pressure Explosive Properties	: No data available
Solubility	: No data available
Water Solubility	: No data available.
Viscosity	: No data available.
pH	: No data available.
VOCs	: No data available
Oxidizing Properties	: Easily soluble (Diethylene glycol diethyl ether)

The physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

## 10 STABILITY AND REACTIVITY

**10.1 Reactivity** : No data available

**10.2 Chemical Stability** : No data available

- 10.3 Possibility of hazardous reactions** : No data available
- 10.4 Conditions to avoid** : Heat, flames and sparks
- 10.5 Incompatible materials** : Strong oxidizing agents, strong bases
- 10.6 Hazardous decomposition products** : Other decomposition products – no data available

## 11 TOXICOLOGICAL INFORMATION

- 11.2 Routes of Overexposure** : Eye, skin, inhalation, and oral ingestion
- 11.3 Health Hazards:**
- Acute Health Hazards** : Overexposure of the eye surface to ink may be mildly irritating. Overexposure of ink contact with the skin may cause irritation and in some people, swelling and redness. Intentional inhalation to ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach.
- Chronic Health Hazards** : No information available
- Mutagenicity** : No information available
- Carcinogenicity** : No information available
- 11.4 Toxicity:**
- Acute Toxicity Data** : **[Diethylene Glycol Diethyl Ether]**  
LD50 Oral, rat: 4,970 mg/kg  
LD50 Skin, rabbit: 6,700 µL/kg  
Draize test, eye rabbit: 50 mg Moderate
- Inhalation** : Gamma Butyrolactone:  
May cause drowsiness or dizziness.
- Irritating** : **[Gamma Butyrolactone]**  
Eye irritating: Severe
- Sensitization** : Not available
- Reproductive Toxicity** : Not available.

## 12 ECOLOGICAL INFORMATION

**12.1 Toxicity** : Aquatic toxicity: No further information available

**12.2 Persistence and Degradability** : No further relevant information available

**12.3 Bioaccumulative Potential** : No further relevant information available

**12.4 Mobility in Soil** : No further relevant information available

**12.5 Results of PBT and vPvB Assessment** : PBT: Not applicable  
: vPvB: Not applicable

**12.6 Other Adverse Effects** : No further relevant information available

### **13 DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods** :**Product**  
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.  
: **Contaminated Packaging**  
Dispose of as unused product

### **14 TRANSPORTATION INFORMATION**

**14.1 UN Number** : NA1993



**14.2 UN Proper Shipping Name** : Combustible Liquid, n.o.s

**14.3 Transport Hazard Class(es)** : Combustible Liquid

**14.4 Packaging Group** : III

**14.5 Environmental Hazards** : Regulated as a class III combustible liquid by DOT, IATA, IMO.

**14.6 Special Precautions for User** :Transport and storage of the product in accordance with

general precautions and instructions mentioned in this SDS.

## 15 REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

:EU Regulation (EC) No. 1272/2008 (CLP Regulations)  
: REACH Status: In compliance.  
: Pre-registration Status: All components are listed or exempted.  
: Annex XIV – List of substances subject to authorization  
Substances of very high concern  
None of the components are listed.  
: Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles  
Not applicable

### 15.2 Chemical Safety Assessment

: No data available

### 15.3 Other Information

**:US Regulation**  
: TSCA Section 4(a) Final Test Rules Regulated:  
Not regulated  
: TSCA Section 5 Significant New Use Rule

Regulation Proposed:  
Diethylene glycol diethyl ether  
(CAS No. 112-36-7)

: TSCA Section 8(a) Preliminary Assessment  
Information RULE (PAIR):

Not Regulated

: TSCA Section 8(a) Inventory Update Rule:  
All components on TSCA INVENTORY

: TSCA Section 8(d) Health and Safety Study  
Reporting:

Not regulated

: TSCA Section 12(b) One-Time Export  
Notification Regulated:

Diethylene glycol diethyl ether  
(CAS No. 112-36-7)

: Clean Air Act Section 112, Hazardous Air  
Pollutants (HAPs):

Diethylene glycol diethyl ether  
(CAS No. 112-36-7)

: California Proposition 65: Not regulated

## 16 OTHER INFORMATION

The data in this Material 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. Issued on December 2015.