



## MATERIAL SAFETY DATA SHEET

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

**Product Name** : Eco Solvent Black Ink

**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  
 www.stsrefill.com

### 2. HAZARD IDENTIFICATION

**Emergency Overview:** Contact with skin and eyes may result in irritation.

**Physical Hazards:** Not classified as a physical hazard.

**Potential Health Hazards:**

Eyes: Contact with eyes might be irritating.

Skin: Contact with skin might cause irritation or redness.

Inhalation: Exposure to vapor or mist may cause respiratory irritation.

Ingestion: Ingestion may cause upset stomach.

Chronic Health Hazards: None known.

Carcinogenicity: This product contains carbon black. Carbon black is classified by the IARC as a Group 2B carcinogen however IARC evaluated printing ink as Group 3(Not classifiable as to carcinogenicity to humans).

**Environmental Hazards:** Not classified as an environmental hazard.

**Other Hazards:** Potential routes of exposure to this product are skin and/or eye contact.

Inhalation and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this formulation.

**Label Elements:** This product does not need to be labelled in accordance to OSHA.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Percent (%)</u>	<u>Chemical Name</u>	<u>Classifications</u>
1) 1333-86-4	1-5	Carbon Black	Not classified as hazardous
1) 112-36-7	1 - 80	Diethylene Glycol Derivative	Not classified as hazardous
2) Not Available	1 - 15	Proprietary Organic Material	Not classified as hazardous
3) Not Available	1 - 5	Proprietary Pigments	Not classified as hazardous

4) Not Available	1 - 20	Lactone Compound	Not classified as hazardous
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#### 4. FIRST AID MEASURES

- Inhalation** : If inhaled move to fresh air. Inhalation of vapor is not expected to be significant routes of exposure for this product under normal use conditions. Respiratory irritation may occur, if persists seek medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. 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. Seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

- Flammable Properties** : Combustible liquid under Hazard Communication Standard(HCS, USA)
- Extinguishing Media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Special Fire-fighting Procedures** : Wear self-contained breathing apparatus(SCBA) and
- Hazardous Thermal Decomposition Products** : Toxic and irritating fume and/or gases may generate by combustion. Wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

- 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** : Move containers from the spill area. Prevent from entering sewers, water courses, basements, or confined areas. Contain and collect spillage with inert absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

## 7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin, eyes and clothing. Obtain and review special instructions before use.
- Storage** : Keep out of the reach of children. Keep away from excessive heat or cold.
- Packaging Materials** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits:

#### US:

Components	OSHA: PEL	ACGIH:TLV
Carbon Black	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>

#### California OELs

Components	PEL	STEL
Carbon Black	3.5mg/m <sup>3</sup>	-
Diethylene Glycol	5ppm,	-
Diethyl Ether	33mg/m <sup>3</sup>	

### **Exposure Controls:**

Control the airborne concentrations below the exposure limits. Use only with adequate ventilation.

### **Personal Protective Equipment:**

#### Respiratory Protection:

Not required under suitable use. In case of insufficient ventilation, wear respiratory protection if necessary.

#### Skin Protection:

Not required under suitable use. In case of direct contact with ink, wear protective clothing and gloves.

#### Eye Protection:

Not required under suitable use. In case of direct contact with ink, wear safety goggles if necessary.

#### Hygiene Measures:

Wash hands after handling. Do not eat, drink or smoke during handling or in storage area. If clothing gets in contact with ink, wash before reuse.

### **Environmental Exposure**

Avoid release to environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Color	: Black
Odor	: Slight
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Specific Gravity	: 0.975±.01 (@20°C)
Vapor Density	: No Data Available (Air = 1)
Vapor Pressure	: Not Determined
Evaporation Rate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: Soluble
pH	: Not Applicable.
Flash Point	: ~71°C
Auto-Ignition Temperature	: Not Determined
Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w)	: No Data Available
Less Exempt Volatile	

## 10. STABILITY AND REACTIVITY

Stability	: This product is stable under recommended conditions of storage and use.
Conditions to Avoid	: High and freezing temperatures.
Incompatible Materials	: Oxidizers and explosives.
Hazardous Decomposition Products	: No data available.

## 11. TOXICOLOGICAL INFORMATION

Serious Eye Damage/Eye Irritation	: No data available
Reproductive Toxicity	: No data available.
Carcinogenicity	: The product contains Carbon Black, IARC evaluated printing ink as a Group 3(Not classifiable as to carcinogenicity to humans.)
Further Information	: Please refer to Section 3 for potential health effects and Section 4 for first aid measures. This ink formulation has not been tested for toxicological effects.

## 12. ECOLOGICAL INFORMATION

<b>Eco toxicity</b>	: No data available
<b>Heavy Metals</b>	: No data available

**Persistence and Degradability** : No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** : Waste must be disposed of according to the applicable state, federal, and local regulations. Do not flush to surface water or sanitary sewer systems.

### 14. TRANSPORTATION INFORMATION

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**Further Information**

Not regulated as dangerous goods under DOT, IATA , ADR, IMGD 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

**US Federal Regulations**

**US TSCA 12(b):** : All ingredients are listed on TSCA Inventory.

**US TSCA Export Notification(40 CFR 707, Subpt. D)** : Product contains Diethylene Glycol Diethyl Ether.

**DEA List 2, Essential Chemicals(21 CFR 1310.02(b) and 1310.04(f)(2)& Chemical Code Number** : Not Regulated

**DEA List 1&2 , Exempt Chemical Mixtures(21 CFR 1310.02(c)** : Not listed.

**SARA of 1986****Hazard Categories**

: Immediate Hazard- No  
: Delayed Hazard- No  
: Fire Hazard- No  
: Pressure Hazard-No  
: Reactivity Hazard- No

**SARA 302 Extremely Hazardous Substance**

: No

**SARA 311/312 Extremely Hazardous Chemical**

: No

**SARA 313**

: Diethylene Glycol Diethyl Ether  
(Chemical Category N230)

**State Regulations****California Proposition 65**

: Not regulated.

**16. OTHER INFORMATION****Date of Issue**

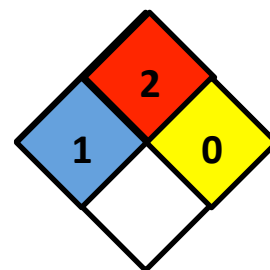
: February 2015

**Version**

: 1.02

**HMIS® Ratings**

Health:1  
Flammability:2  
Physical Hazard:1

**NFPA ratings**

Health:1  
Flammability:2  
Physical Hazard:1

**Notice to the Reader:**

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. 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.