



SAFETY DATA SHEET

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

<u>Product Name</u>	TR2 TrueVIS Light Black Ink
<u>Product IDN</u>	SB.TR2.1001
<u>Material Uses</u>	Ink for use in an ink jet process.
<u>Manufacturer</u>	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
<u>Date Issued</u>	January 21 st , 2020

2. HAZARD IDENTIFICATION

2.1 Classifications

Classification according to GHS

Combustible Liquid: H227

Acute Tox.4: H302 Harmful if swallowed.

Skin Irrit.2: H315 Causes skin irritation.

Eye Damage Cat.1: H318 Causes serious eye damage.

Specific target organ toxicity, Cat 3: H336 May cause drowsiness or dizziness.

2.2 Label Elements:

Labeling according to GHS

Hazard pictograms



Signal Word: Danger

Hazard Statements:

H227: Combustible liquid.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H336: May cause drowsiness or dizziness.

Precautionary Statements:

PREVENTION:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/eye protection/face protection.

RESPONSE:

P370+378: In case of fire: Use extinguishers.
P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P332+P313+P362: If SKIN IRRITATION OCCURS: Get medical advice/attention. Wash contaminated clothing before reuse.
P305+P351+P338+P337: 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.
P304+340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

STORAGE:

P403 +P233+P405: Store in a well-ventilated place. Keep container tightly closed and Cool.

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 No	EU PreRegistration Number	Percent(%)	Classification GHS(Rev 5)
Colorant	Trade Secret	Trade Secret	N/A at the moment	10-20	-
2-Ethoxy Ethyl Ether	112-36-7	203-963-7	N/A at the moment	30-60	Skin Irrit.2; H315, H227.
Butoxytriethylene glycol	Trade Secret	Trade Secret	N/A at the moment	10-20	Eye Dam.1; H318
Polymer	Trade Secret	Trade Secret	N/A at the moment	1-10	-
Lactone	96-48-0	207-938-1	N/A at the moment	10-20	Acute Tox.4; Eye Dam. 1; STOT SE 3; H302, H318, H336

4 FIRST AID MEASURES

4.1 Description

Inhalation

If inhaled move to fresh air. Respiratory irritation may occur, if symptoms develop seek medical attention. If not breathing, give artificial respiration preferably mouth to mouth.

Ingestion

Rinse mouth with water. Give two glasses of water and monitor closely. Call a poison control center, emergency room, or physician before trying to induce vomiting.
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 soap and 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 (CO₂), water spray.

5.3 Special Hazards arising from the substance or mixture

Carbon Oxides

5.4 Advice for Fire-Fighters

Wear self-contained 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. Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for safe storage

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 parameters

Contains no substances with occupational exposure limit values.

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 as 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	Light 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	Not Applicable
Vapor Pressure	No data available
Explosive Properties	No data available
Solubility	Easily soluble (Diethylene glycol diethyl ether)
Water Solubility	No data available.
Viscosity	Not applicable
pH	No data available.
VOCs	No data available
Oxidizing Properties	

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 Irritating	Not available. Butoxytriethylene glycol Eye damage: 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

15.2 Chemical Safety Assessment

Not applicable

15.3 Other Information

No data available

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.

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