



SAFETY DATA SHEET

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

Product Name : Mimaki BS3 Replacement Black Ink

Product # : SB.BS3.1000

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

2. HAZARD IDENTIFICATION

Signal Word: DANGER

Classifications:

Carcinogenicity(Category 2)

Respiratory or skin sensitization.(Category 1)

Chronic aquatic toxicity. (Category 2)

Serious Eye Damage/Eye Irritation(Category 1)

Reproductive toxicity(Category 1B)

Specific target organ toxicity, single exposure(Category 1 blood, central nervous system)

Specific target organ toxicity, single exposure(Category 3 respiratory tract)

Specific target organ toxicity, repeated exposure(Category 1 Lungs)

Labeling:



Symbol(s):

Health Hazard

Irritant

Corrosive

Hazard Statements:

H227: Combustible liquid.

H318: Causes serious eye irritation.

H335: May cause respiratory tract irritation.

H360: May damage fertility or the unborn child.

H370: Causes damage to blood, central nervous system.

H371: May cause damage to kidneys and hematopoietic system.

H372: Causes damage to organs.

H412: Harmful to aquatic life.

Precautionary Statements:

PREVENTION:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

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

P271: Use only outdoors or in well-ventilated areas.

P272: Contaminated work clothing must not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves.

RESPONSE:

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF Exposed or concerned: Get medical attention.

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

P321: Specific treatment: Refer to section 4 of the SDS for first aid instructions.

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

P362+P364: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

STORAGE:

P405: Store locked up.

DISPOSAL:

P501: Dispose of contents/container in accordance with all regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Percent (%)</u>	<u>Chemical Name</u>
1) 112-07-2	1-60	2-Butoxyethyl Acetate

2) Trade Secret	1-25	Lactone
3) Trade Secret	1-10	Proprietary Resin
4) 1333-86-4	1-10	Carbon Black

4. FIRST AID MEASURES

- 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.
- Ingestion** : 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 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 > 65 Deg C
- Autoignition Temperature** : No limits available.
- Suitable Extinguishing Media** : Dry chemical, Carbon Dioxide(CO₂), water may be ineffective.
- Unsuitable Extinguishing Media** : Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
- 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, NOXs 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. Apply 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. Apply 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

Handling

: 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.

Storage

: Keep out of the reach of children. Store at room temperature. Shelf life: minimum 12 months. Avoid freeze and thaw cycles.

Packaging Materials

: Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	Chemical Name	CAS Number		TWA
1	2-Butoxyethyl Acetate	112-07-2	ACGIH NIOSH	20 ppm 5 ppm
2	Carbon Black	1333-86-4	ACGIH OSHA NIOSH	3mg/m ³ 3.5 mg/m ³ 3.5 mg/m ³

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	: Black
Odor	: Solvent Odor.
Boiling Point	: Not Determined
Melting Point	: Not Determined
Freezing Point	: No Data Available
Density	: .975±0.05
Vapor Density	: Not Determined
Vapor Pressure	: Not Determined
Evaporation Rate (Butyl Acetate = 1)	: No Data Available
Relative Density	: No Data Available
Solubility (Water)	: No Data Available
pH	: No data Available
Flash Point	: No Data Available
Auto-Ignition Temperature	: Not Determined

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Flammable Limits	: Not Determined
Volatility (w/w)	: No Data Available
VOC Volatility (w/w)	: <1%
Less Exempt Volatile	

10. STABILITY AND REACTIVITY

Stability	: 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.
Conditions to Avoid	: Do not store near ammonia, strong acids, strong bases and oxidizing agents.
Hazardous Decomposition 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, NOXs and particulate matter.
Hazardous Polymerization	: Will not occur.

11. TOXICOLOGICAL INFORMATION

Serious Eye Damage/Eye Irritation	: Eye irritant.
Skin Irritant	: Skin irritant.
Ingestion	: Do not ingest. May be harmful if swallowed.
Inhalation	: No data available.
Subchronic	: Unknown
Chronic/Carcinogenicity	: Chronic toxicity effects unknown. See below information regarding to carcinogenic classification.
NTP	: No classification(s).
OSHA	: No classification(s).
Teratology	: Not a suspected teratogen.
Reproduction	: This product has not been tested, however based on GHS Hazard statement, the product contains a chemical that may damage fertility or unborn child.

Mutagenicity	: Not a suspected mutagen.
Acute Toxicity	: This product is acutely toxic. See toxicological information in this section for more details.
STOT-Single Exposure	: No data available.
STOT-Repeated Exposure	: This product contains a chemical that is classified as a specific target organ toxin for repeated exposure. Lungs, blood, kidneys are identified.
Routes of Exposure	: Skin absorption, breathing, ingestion, eye contact.

12. ECOLOGICAL INFORMATION

Environmental/Chemical Fate: No data available.

Environmental Toxicity: This product contains a chemical that is classified in accordance with GHS hazard assessment as being toxic to aquatic life with long-lasting effects.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

United States DOT Domestic Surface, USA, ICAO/IATA AIR, IMO/IMDG OCEAN, ADR, or RID

This product is not a class 9 marine pollutant when transported by road in the United States in accordance with DOT. This product is regulated for transport by air in accordance with IATA, internationally by vessel in accordance with IMDG and by rail in accordance with ADR.

Special precautions	: Not listed
UN Number	: UN3082
Packing Group	: ADR, IMDG, IATA-III
UN shipping name	: Environmentally hazardous substance, liquid NOS(2-Phenoxyethyl Acrylate)
Transport Hazard Class:	: ADR,IMDG, IATA- Class 9
Marine pollutant	:IATA, IMDG, ADR-Marine pollutant, not classified as a marine pollutant by USDOT for transport by road within the United States.

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

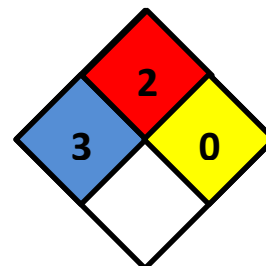
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**Canadian WHMIS
Canadian Environmental Protection Act
EINECS**

: Not available.

: Not available.

: Not available.

National Fire Protection Association (United States): Health: 3
Flammability: 2
Instability: 0**State Regulations
State of California Proposition 65**

: Not available.

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

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

: February 2016

: 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.