

Safety Data Sheet

1.0 SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY UNDERTAKING

1.1. Product identifier:

1.1.1. Mixtures

1.1.1.1. SubliJet HD® Yellow Ink

1.1.1.2. Other means of identification:

1.1.1.2.1. Pt # 209094, SG 400/800 Yellow

1.1.1.2.2. Pt # 209114, SG 800 LG Cart Y

1.2. Relevant identified uses of the substance and uses advised against:

1.2.1. Identified uses: Aqueous based ink for digital printing.

1.2.2. Uses advised against: None available.

1.3. Details of the supplier of the safety data sheet:

1.3.1. Manufacturer: Sawgrass Technologies.

1.3.2. Address: 2233 N Highway 17, Mount Pleasant, SC 29466, USA.

1.3.3. Telephone number: +001-843-884-1575 (Mon-Fri 0800-1700 EST).

1.3.4. E-mail address: support@sawgrassink.com.

1.3.5. Contact Department: Product Development Quality.

1.4. Emergency Contact Information

1.4.1. Company Name: Chemtrec

1.4.2. Telephone Number: +1 703-741-5970 / 1-800-424-9300 (Worldwide, 24/7)

2.0 SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture according to Regulation (EC) No 1272/2008 [CLP]

Self-classification in accordance to EU CLP 1272/2008	
Hazard classes/Hazard categories	Hazard Statement
Skin Irritant Category 2	Causes skin irritation, H315
Eye Irritant Category 2	Causes serious eye irritation, H319
Specific Target Organ Toxicity – Single Exposure – Respiratory System – Category 3	May cause respiratory irritation, H335

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2.2. Label Elements.

2.2.1. Hazard Pictogram:



2.2.2. Signal Word: **Warning**

2.2.3. Hazard Statements:

2.2.3.1. H315, Causes skin irritation

2.2.3.2. H319, Causes serious eye irritation

2.2.3.3. H335, May cause respiratory irritation

2.2.4. Precautionary Statements:

2.2.4.1. P264: Wash hands thoroughly after handling.

2.2.4.2. P280: Wear gloves when handling liquid inks.

2.2.4.3. P302 + P352: IF ON SKIN, wash with plenty of soap and water.

2.2.4.4. P332 +P313: If skin irritation occurs, get medical attention.

2.2.4.5. P362: Take off contaminated clothing and wash before reuse.

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

2.2.4.7. P337+P313: If eye irritation persists, get medical advice/attention.

2.2.4.8. P301+P330+P331 IF SWALLOWED, rinse mouth. Do NOT induce vomiting.

2.3. Other Hazards: None known.

3.0 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: N/A

3.2. Mixtures

3.2.1. Description of Mixture: Ink Jet printing ink.

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3.2.2. Mixture Components.

Substance Name	CAS No.	INDEX No.	EC No.	% by Weight	Classification according Regulation (EC) No. 1272/2008 [CLP]	Reach Registration No
Proprietary Dye	N/A	N/A	N/A	≤ 5%	N/A	N/A
Glycerin	56-81-5	N/A	200-289-5	≤5%	Nonhazardous	N/A
Proprietary Organic Materials	N/A	N/A	N/A	≤ 10%	N/A	N/A
Propylene Glycol	57-55-6	N/A	200-338-0	≤ 50%	Nonhazardous	N/A
Distilled Water	7732-18-5	N/A	231-791-2	Balance	Exemption	N/A

4.0 SECTION 4: FIRST AID MEASURE

4.1. Description of first aid measures

4.1.1. General notes: Remove contaminated clothing immediately.

4.1.2. Following inhalation: Move to fresh air in case of accidental inhalation of vapors and refer to medical treatment.

4.1.3. Following skin contact: Immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs, seek medical attention.

4.1.4. Following eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and continue rinsing. If eye irritation persists, seek medical attention.

4.1.5. Following ingestion: Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

4.1.6. Self-protection of the first aider:

4.2. Most important symptoms and effects, both acute and delayed: Refer to Section 11 - Toxicological Information.

4.3. Indication of any immediate medical attention and special treatment needed: For physicians: All treatments should be based on observed signs and symptoms of

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distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

5.0 SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media: Regular foam, carbon dioxide, dry chemical.

5.1.2. Unsuitable extinguishing media: Full water jet.

5.2. Special hazards arising from the substance or mixture: None.

Advice for firefighters: Special Firefighting procedures: As in a fire, wear a self-contained breathing apparatus and full protective clothing. During a fire, vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat.

6.0 SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1. For non-emergency personnel: Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.1.2. For emergency responders: Wear appropriate protective equipment including respiratory protection as conditions warrant.

6.2. Environmental precautions: Do not discharge into drains, surface waters/ground waters.

6.3. Methods and material for containment and cleaning up: Stop leaks if you can do it without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean tools to collect absorbed material. For large spills, dike far ahead of liquid spill for later disposal.

6.4. Relevant to other sections: Observe protective instructions (see sections 7 and 8). Information for disposal see section 13.

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7.0 SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling: Is not easily ignited by heat, sparks or flames, but precautionary measures should be taken. No Smoking, and use only with adequate ventilation.

- 7.1.1. Protective measures to prevent fire: Keep away from heat and ignition sources.
- 7.1.2. Measures to protect the environment: Keep containers tightly closed.
- 7.1.3. Advice on general occupational hygiene: Use gloves when handling, and keep away from food, drink and animal feeding stuffs.

7.2. Conditions for safe storage, including any incompatibilities:

- 7.2.1. Technical measures and storage conditions: Store in a dry, cool, and well ventilated place away from heat sources. Store away from oxidizers and strong acids.

8.0 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters.

- 8.1.1. National limit values: Not available.
- 8.1.2. Relevant DNELs and PNECs: Not available.

8.2. Exposure Controls

- 8.2.1. Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.
- 8.2.2. Protective and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.
- 8.2.3. Individual protection measures (PPE):
 - 8.2.3.1. Eye/face protection: Tightly fitting goggles. EN 166
 - 8.2.3.2. Eye wash bottle and pure water. EN 15154
 - 8.2.3.3. Long sleeved clothing: EN6530.
 - 8.2.3.4. Protective gloves: EN16523.
 - 8.2.3.5. In case of insufficient ventilation, wear suitable respiratory equipment to EN14387, filter type A.

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9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Odour threshold:	Unknown
Appearance:	Aqueous colored liquid
Colour:	Black
Odour:	Odorless
Melting point/range (°C):	Unknown
Boiling point/range (°C) :	~100 °C
Flash point (°C) :	Unknown
Evaporation rate:	Unknown
Flammability (solid, gas);	Unknown
Ignition temperature (°C) :	Unknown
Upper/lower flammability/explosive limits:	Unknown
Vapour pressure (20°C) :	Unknown
Vapour density:	>1 (air = 1)
Relative Density (20°C):	1.02 – 1.05 g/cm ³ @ 25 °C
Water solubility (g/l) at 20°C :	Unknown
n-Octanol/Water (log Po/w) :	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity, dynamic (20 °C) :	2 – 6 mPa.s @ 25 °C

10.0 SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity: No dangerous reaction known under conditions of normal use.
- 10.2. Chemical stability: Stable under normal temperatures and pressures.
- 10.3. Possibility of hazardous reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to avoid: High temperatures.
- 10.5. Incompatible materials: Oxidizing agents, strong acids.
- 10.6. Hazardous decomposition products: In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

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11.0 SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Component Name	CAS	Data
Glycerin	CAS:56-81-5	Ingestion/Oral -Rat LD50 ·>17000 mg/kg Inhalation -Rat LC50 ·>4 mg/L Skin -Rabbit LD50 ·>10000 mg/kg
Propylene Glycol	CAS:57-55-6	Ingestion/Oral (LD50): 18500 mg/kg [Rabbit] Skin (LD50): 20800 mg/kg [Rabbit]

GHS Properties	Classification
Acute toxicity	No Data
Aspiration Hazard	No Data
Carcinogenicity	No Data
Germ Cell Mutagenicity	No Data
Respiratory sensitization	No Data
Serious eye damage/Irritation	No Data
Skin corrosion/Irritation	No Data
Skin sensitization	No Data
STOT-RE	No Data
STOT-SE	No Data
Toxicity for Reproduction	No Data

11.2. Acute toxicity

11.2.1. Target Organs: None

11.2.2. Route(s) of entry/exposure: Inhalation, Skin, Eye, Ingestion

11.2.3. Potential health effects

11.2.3.1. Inhalation

11.2.3.1.1. Acute (immediate): None

11.2.3.1.2. Chronic (Delayed) No data available

11.2.3.2. Skin

11.2.3.2.1. Acute (immediate): May cause mild skin irritation

11.2.3.2.2. Chronic (Delayed) No data available

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12.0 SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity: Material data lacking.
- 12.2. Persistence and degradability: Material data lacking.
- 12.3. Bioaccumulative potential: Material data lacking.
- 12.4. Mobility in soil: Material data lacking.
- 12.5. Results of PBT and vPvB assessment: Material data lacking.
- 12.6. Other adverse effects: No studies have been found.

13.0 SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods
 - 13.1.1. Product disposal: Can be incinerated, when in compliance with local regulations.
 - 13.1.2. Packaging disposal: Contaminated packaging should be emptied as far as possible. Contaminated packaging should be treated like the product itself.
 - 13.1.3. Waste codes/waste designation according to LoW: 080312: WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink.
 - 13.1.4. Waste treatment-relevant information: Product should not be disposed of in sewers.

14.0 SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number: No UN number or name.
- 14.2. Land transportation: Hazard Class non-regulated.
- 14.3. Sea transportation: Hazard Class non-regulated.
- 14.4. Air Transportation: This material is considered to be non-hazardous for air transportation.

15.0 SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. **None**
- 15.2. Chemical Safety Assessment:
 - 15.2.1. European Directive 2011/65/EU Annex II (RoHS);recasting 2002/95/EC: **PASS**
 - 15.2.2. Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendments- Perfluorooctane sulfonates (PFOS) content: **PASS**
 - 15.2.3. European Regulation (EC) No 1907/2006 (REACH) Annex XVII and its amendments – Phthalates content: **PASS**

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15.2.4. Halogen Tests

Halogen Test Results :

Test Items	Unit	Method	Method Detection Limit	1
Halogen – Chlorine (Cl) CAS # 007782-50-5	mg/kg	BS EN 14582:2007	50	6220
Halogen – Bromine (Br) CAS # 007726-95-6	mg/kg	BS EN 14582:2007	50	ND
Halogen – Fluorine (F) CAS # 007782-41-4	mg/kg	BS EN 14582:2007	50	ND
Halogen – Iodine (I) CAS # 007553-56-2	mg/kg	BS EN 14582:2007	50	ND

15.2.5. Test for PFOA content

4. Perfluorooctanoic Acid (PFOA) content

Method : Solvent extraction followed by analysis using High-performance Liquid Chromatography-Mass Spectrophotometer (HPLC-MS).

Test Item	Result (%)	Detection Limit (%)
	1	
Perfluorooctanoic Acid (PFOA)	ND	0.001
Comment	--	--

15.2.6. Heavy Metals Content:

5. Heavy Metals Content (As specified by the client)

Method: Acid digestion followed by analysis with Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg/kg)	Detection Limit (mg/kg)
	1	
Antimony (Sb)	ND	20
Beryllium (Be)	ND	20
Arsenic (As)	ND	20
Bismuth (Bi)	ND	20
Nickel (Ni)	ND	20
Selenium (Se)	ND	20

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15.2.7. DIBP content:

Method : With reference to CPSC-CH-C1001-09.3. Analysis was performed by Gas Chromatography / Mass Spectrometry.

Test Item	Result (%)	Detection Limit (%)
	1	
Diisobutyl phthalate (DIBP)	ND	0.015

16.0 SECTION 16: OTHER INFORMATION

16.1. Abbreviations:

16.1.1. CAS Chemical Abstract Service

16.1.2. EN: European Norm

16.2. Relevant H numbers:

16.2.1. H315, Causes skin irritation

16.2.2. H319, Causes serious eye irritation

16.2.3. H335, May cause respiratory irritation

16.3. Revision Information

16.3.1. Last Revision Date: 5/10/2017

16.3.2. Preparation Date: 5/10/2017

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.