

SAFETY DATA SHEET, Doc #: SDS-EU-052, Rev 2, 9/19/2017

According to 1907/2006/EC, Article 31

Section 1- Identification

1.1 Product Name: SubliJet HD Black

Product Identifier: 1509091, 1809091, 209091, 209091 SC, 209091 SC NB, 209111, 209111 NB, 209112 NB, 209113 NB, 209114 NB

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use ● Aqueous based ink for digital printing

Product Category ● PC 18 – Ink and Toners

1.3 Details of the supplier of the safety data sheet

Manufacturer ● Sawgrass Technologies
2233 Highway 17 North
Mount Pleasant, SC 29466
United States
www.sawgrassink.com

1.4 Emergency telephone numbers:

CHEMTREC (Worldwide, 24hrs, 7 days a week): **+1 703-741-5970 / 1-800-424-9300**

Sawgrass Technologies: (US 0800 EST-1700 EST, 1300 UTC-2200 UTC): **(011) 843-884-1575**

Section 2- Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Non-Regulated Material

Hazard pictograms Non-Regulated Material

Signal word: Non-Regulated Material

Hazard statements: Non-Regulated Material

Additional information:

0 % of the mixture consists of component(s) of unknown toxicity.

Contains 23,9 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards: None known

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Precautionary Statements

Prevention

- P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P264: Wash thoroughly after handling.
 P271+235: Use in a cool, well-ventilated area.
 P280: Wear protective gloves, protective clothes, eye protection, and face protection.
 P270: Do not eat, drink, or smoke when using this product.
 P260: Do not breathe dust/fumes/gas/mist/vapors/spray.

Response

- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P362: Take off contaminated clothing and wash before reuse.
 P332+313: If skin irritation occurs: Get medical advice/attention.
 P337+313: If eye irritation persists: Get medical advice/attention.
 P308+313: If exposed or concerned: Get medical advice/attention.
 P321: Specific treatment, see supplemental first aid information.
 P370+378: IN CASE OF FIRE: Use appropriate media for extinction.

Storage

- P403+233: Store in a cool, well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

Disposal

- P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

· **Hazard(s) not otherwise classified (HNOC):** None known

See Section 12 for Ecological Information.

Section 3- Composition/Information on Ingredients

3.1 Chemical Characterisation: Mixtures

Description: Mixture of substances listed below:

Chemical Name	Cas #	% (weight)
Proprietary Organic Materials	-	≤ 5%
Proprietary Dye	-	≤ 10%
Glycerin	56-81-5	≤ 10%
Propylene Glycol	57-55-6	≤ 40%
Distilled Water	7732-18-5	Balance

SVHC

Mixture was tested for the one hundred and seventy-three (173) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before January 12, 2017 regarding Regulation (EC) No 1907/2006 concerning the REACH, with the following results:

No Detected SVHC in Mixture.

See Section 11 for Toxicological Information.

Section 4- First-Aid Measures

4.1 Description of first aid measures

- | | |
|-------------------|---|
| Inhalation | <ul style="list-style-type: none"> ● Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. |
| Skin | <ul style="list-style-type: none"> ● In case of contact with substance, 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: Get medical advice/attention. |
| Eye | <ul style="list-style-type: none"> ● IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | <ul style="list-style-type: none"> ● Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention. |

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

- | | |
|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> ● All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

See Section 2 for Potential Health Effects

Section 5- Fire-Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Regular foam, carbon dioxide, dry chemical.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None

Hazardous Combustion Products

- Special Firefighting Procedures: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. 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. Solvent vapors may be heavier than air. Stagnant air may cause vapors to build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Stop leak 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.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling ● Keep away from heat and ignition sources – No Smoking. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Storage ● Store in a cool/low-temperature, well-ventilated place away from heat sources. Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or Ignition Sources ● Will not easily ignited by heat, sparks or flames. Containers may explode when heated.

Section 8 -Exposure Controls/Personal Protection

8.1 Control parameters

● In accordance with good industrial practices, handle with care and avoid personal contact.

8.2 Exposure controls

Engineering Measures/Controls ● Adequate ventilation systems.

Personal Protective Equipment

Pictograms



Respiratory ● In case of insufficient ventilation, wear suitable respiratory equipment. Use a respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face ● Wear safety glasses.

Hands/Skin/Body ● Wear safety gloves.

General Industrial Hygiene Considerations

- 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.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
 National Institute of Occupational Safety and Health
 Occupational Safety and Health Administration
 MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures NIOSH =
 STEL = Short Term Exposure Limits are based on 15-minute exposures OSHA =
 STEV = Short Term Exposure Value

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance	Aqueous colored liquid
pH	6-10	Odor	Odorless
Boiling Point	~100 °C	Freezing Point	< 0 °C
Viscosity	2-8 mPa.s @ 25 °C	Solubility in Water	Miscible
Specific Gravity	1.07-1.12 g/cm ³ @ 25 °C	Vapor Density	>1 (air = 1)

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

- Hazardous polymerization will not occur.
- 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.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Propylene Glycol	CAS: 57-55-6	Propylene glycol: ORAL (LD50): Acute: 20000 mg/kg [Rat]. 22000 mg/kg [Mouse]. DERMAL (LD50): Acute: 20800 mg/kg [Rabbit].
GHS Properties		Classification
Acute toxicity		No data available
Aspiration Hazard		No data available
Carcinogenicity		No data available
Germ Cell Mutagenicity		No data available
Respiratory sensitization		No data available
Serious eye damage/Irritation		No data available
Skin corrosion/Irritation		No data available
Skin sensitization		No data available
STOT-RE		No data available
STOT-SE		No data available
Toxicity for Reproduction		No data available

Target Organs ● None

Route(s) of entry/exposure ● Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

Acute (Immediate) ● None

Chronic (Delayed) ● No data available.

Skin

Acute (Immediate) ● May cause mild skin irritation.

Chronic (Delayed) ● No data available.

Eye

- Acute (Immediate)** ● May cause mild eye irritation.
- Chronic (Delayed)** ● No data available.

Ingestion

- Acute (Immediate)** ● May cause mild irritation.
- Chronic (Delayed)** ● No data available.

Section 12 - Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant 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.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods

- Product waste** ● Dispose of content and/or container in accordance with local, regional, national, and/or International regulations.
- Packaging waste** ● Dispose of content and/or container in accordance with local, regional, national, and/or International regulations.

Section 14 - Transport Information

14.1 UN-Number

ADR, ADN, IMDG, IATA Non-Regulated Material

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Non-Regulated Material

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA Non-Regulated Material

Class

14.4 Packing group

ADR, IMDG, IATA Non-Regulated Material

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to

Annex II of Marpol and the IBC Code Not applicable.

· UN "Model Regulation":

Non-Regulated Material

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients are listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30

National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

No SVHCs detected.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16 - Other Information

Last Revision Date ● 09/19/17

Preparation Date ● 03/16/2016

Disclaimer/Statement of Liability

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.

Skin Irritant – Category 2

Eye Irritant – Category 2

Specific Target Organ Toxicity – Single Exposure – Respiratory System – Category 3

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.

Key to abbreviations

NDA: No data available

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative