SAFETY DATA SHEET

Section 1- Identification

Product identifier

Product Name **Chromablast HD Ink Yellow**

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

Recommended use • Hazard Communication & Compliance

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

Telephone (General) • 843-884-1575

Emergency telephone number

CHEMTREC • 800-424-9300

Section 2- Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Hazard Symbols: None listed.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Risk Phrases: Xi

Classification of the substance or mixture

OSHA HCS 2012 Skin Irritation H316
H320

Label elements

OSHA HCS 2012

Hazard statements

May cause mild skin irritation. - H316
May cause eye irritation. - H320

Precautionary statements

Keep cool. - P235

Prevention

Wash thoroughly after handling. - P264
Use in a well-ventilated area. - P271
Wear protective gloves and eye protection. - P281
In case of fire: Use appropriate media for extinction. - P370+P378

Response

Call a POISON CENTER or doctor/physician if you feel unwell. - P312
IF ON SKIN: Wash with plenty of soap and water. - P302+P352
Rinse skin with water/shower. - P353
Take off contaminated clothing and wash before reuse. - P362
If skin irritation occurs: Get medical advice/attention. - P332+P313
Specific treatment, see supplemental first aid information. - P321

Storage/Disposal

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501
Store in a well-ventilated place. Keep container tightly closed. - P403+P2

Other hazards

OSHA HCS 2012

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

Canada

According to WHMIS

Classification of the substance or mixture

WHMIS

- Non Flammable Liquids

Label elements

WHMIS

- Non Flammable Liquids

Other hazards

WHMIS

- In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Other information

NFPA

See Section 12 for Ecological Information.

Section 3- Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Components					
Chemical Name	**Identifiers**	**%(weight)**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comment**
Proprietary Pigments	**None**	<10%	NDA	**OSHA HCS 2012:** NDA	NDA
Ethylene Glycol	107-21-1	<25%	ORAL (LD50): Acute: 4700 mg/kg [Rat] VAPOR (LC50): Acute: >200 mg/m 4 hours [Rat]	**OSHA HCS 2012:** NDA	NDA
n-methyl Pyrrolodinone	**CAS:872-50-4**	1-2%	Oral rat: 3914 mg/kg Dermal rat: 7000 mg/kg Dermal rabbit: 8000 mg/kg Inhalation rat: >5.1 mg/1/4 h	**OSHA HCS 2012:** NDA	NDA
Triethylamine	**CAS**: 121-44-8	1-1.5%	Oral LD50 Rat: 460 mg/kg Dermal Rabbit: 570 mg/kg	**OSHA HCS 2012:** NDA	NDA
Water	**CAS:**7732-18-5	Balance	NDA	**OSHA HCS 2012:** NDA	NDA

See Section 11 for Toxicological Information.

Section 4- First-Aid Measures

Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

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

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
- 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

Extinguishing media

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

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None

Hazardous Combustion Products • Special Fire fighting 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

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.

Environmental precautions

• Avoid run off to waterways and sewers.

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

Precautions for safe handling

Handling

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

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.
- Special Fire fighting 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.
- Keep away from heat, oxidizers and strong acids.

Section 8 -Exposure Controls/Personal Protection

Control parameters

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

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems.

Personal Protective Equipment

Pictograms

-

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved 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	7-9	**Odor**	Mild (or faint)
Boiling Point	~100℃	**Freezing Point**	< 0℃
Viscosity	2-6 mPa.s @ 25℃	**Solubility in Water**	Miscible
Specific Gravity	1.02 – 1.05 g/cm^3 @ 25℃	**Vapor Density**	>1 (air = 1)

Section 10- Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Hazardous polymerization will not occur.
- High temperatures.

Incompatible materials

- Oxidizing agents, strong acids.

Hazardous decomposition products

- In case of fire oxides of carbon, hydrocarbons, fumes or vapors, soot and smoke may be produced.

Section 11 - Toxicological Information

Information on toxicological effects

GHS Properties	Classification
Acute toxicity	**OSHA HCS 2012** • No Data
Aspiration Hazard	**OSHA HCS 2012** • No Data
Carcinogenicity	**OSHA HCS 2012** • No Data
Germ Cell Mutagenicity	**OSHA HCS 2012** • No Data
Respiratory sensitization	**OSHA HCS 2012** • No Data
Serious eye damage/Irritation	**OSHA HCS 2012** • No Data
Skin corrosion/Irritation	**OSHA HCS 2012** • No Data
Skin sensitization	**OSHA HCS 2012** • No Data
STOT-RE	**OSHA HCS 2012** • No Data
STOT-SE	**OSHA HCS 2012** • No Data
Toxicity for Reproduction	**OSHA HCS 2012** • No Data

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

Toxicity

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Other adverse effects

- No studies have been found.

Other Information

- No data is available on the adverse effects of this material on the environment.

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

DOT (Domestic surface)
Hazard Class or Division: non-regulated

IMO/IMDG code (Ocean)
Hazard Class Division Number**:** Non-regulated

IATA
Non-Hazardous for Air Transportation: This material is considered to be non-hazardous for air transportation

Section 15 - Regulatory Information

Federal Regulations

OSHA Hazardous Substance:

This material is not classified as hazardous under OSHA regulations

Clean Air Act - Hazardous Air Pollutants (HAP): This product does not contain any Hazardous Air Pollutants (HAP),as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Clean Air Act - Volatile Organic Compounds (VOC): This product contains the following SOCMI Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 50.100).

Components CAS Number CAA Section 111 Volatile Organic Compounds
None

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82,Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261.21).**SARA Section 302 Extremely Hazardous Substances (EHS):** This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

SARA Section 304 CERCLA Hazardous Substances: This product does not contain any components regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

SARA Section 311/312 Hazard Communication Standard (HCS): This product is not regulated under Section 311/312HCS (40 CFR 370).

SARA Section 313 Toxic Chemical List (TCL): This product does not contain any component(s) listed on the Section313 Toxic Chemical List.

TSCA Section 8(b) Inventory Status: All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order. **TSCA Significant New Use Rule (SNUR):** This product is not subject to a Significant New Use Rule (SNUR). **TSCA Section 5(f):** This product is not subject to a Section 5(f)/6(a) rule.

TSCA Section 12(b) Export Notification: This product does not contain any component(s) that are subject to a Section 12(b) Export Notification

State Regulations

California Proposition 65: This product does not contain any components currently on the California list of Known Carcinogens and Reproductive Toxins.

State / Right-To-Know:

This product contains the following component(s) which are subject to Illinois, Louisiana, Massachusetts, Minnesota, New Jersey, New York, Pennsylvania, Tennessee and Rhode Island Right-to-Know disclosure requirement.

Components CAS Number Right-to-Know
Ethylene Glycol 107-21-1

International Regulations

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Section 16 - Other Information

Last Revision Date • None

Preparation Date • 03/18/2015

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.

Key to abbreviations
NDA = No data available.