Higgins Dye Inks

SAFETY DATA SHEET (SDS)

Version: 01
Date of Issue: December 2, 2019

According to: US Hazard Communication Standard (HCS 2012), WHMIS 2015 (Hazardous Products Regulations)

Section 1 – Identification

1.1 Product identifier

Product Name: Higgins Dye Inks
Product Description: Liquid ink intended for general arts and crafts purposes. The product is intended to be applied using a brush, dip pen, or airbrush.

1.2 Relevant identified uses of the substance

Relevant identified use(s): Use for general arts and crafts purposes

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Chartpak, Inc.
1 River Road
Leeds, MA, 01053
United States

Business Phone: 800-682-1910

1.4 Emergency telephone number

Emergency Telephone: 800-682-1910

Section 2 – Hazard(s) Identification

2.1. Classification of the substance or mixture

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Health	Environmental	Physical
Not classified	Not classified	Not classified

2.2. Label elements

Label Pictogram: Not applicable
Signal Word: Not applicable

2.3. Other hazards

- This product is not considered a hazardous mixture under the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) or WHMIS 2015 (Hazardous Products Regulations).

Section 3 – Composition / Information on Ingredients

Hazardous Components

Chemical Name	CAS No.	EINECS No.	% Weight
Hydrolyzed wheat protein	N/A	N/A	0% - 2.61%
Carbon black	1333-86-4	215-609-9	0% - 7.483%
Ammonia	7664-41-7/1336-21-6	231-635-3	0% - 1.69%
Sodium borate	1303-96-4	603-411-9	0% - 0.216%
Titanium dioxide	13463-67-7	236-675-5	0% - 7.958%

The exact percentage (concentration) of composition of the product has been withheld as trade secrets

Section 4 – First-Aid Measures

4.1 Description of first aid measures

Eye contact: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water. Seek medical attention if in doubt.

Skin contact: No specific first aid measures are required. Seek medical attention if in doubt.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if in doubt.

Ingestion: No specific first aid measures are required. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if in doubt.

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

- Not required

Section 5 – Fire-Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding area if material is involved in a fire (e.g., water fog, foam, dry chemical or carbon dioxide)

Unsuitable Extinguishing Media: None known

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards: None known. See also **Section 10** - Stability and Reactivity.

5.3 Advice for firefighters

- Not available

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment (PPE) and emergency procedures

Personal Precautions: Observe PPE advice in **Section 8** – Exposure Controls/Personal Protection.

Emergency Procedures: Wear suitable protective clothing and gloves.

6.2 Environmental precautions:

- Prevent entry and contact with soil, drains, sewers, and waterways. Inform relevant local/regional/national/international authorities.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures: Contain spill if safe to do so. Collect recoverable product and place in a designated container for disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.

6.4 Reference to other sections

- Refer to **Section 8** - Exposure Controls/Personal Protection and **Section 13** – Disposal Considerations.

Section 7– Handling and Storage

7.1 Precautions for safe handling

- Eating, drinking and smoking in work areas is prohibited. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Use normal measures for prevention of fire. Refer to **Section 8** - Exposure Controls/Personal Protection

7.2 Conditions for safe storage, including any incompatibilities storage

- Store in a closed suitable container in a cool, dry, well-ventilated area.

7.3 Specific end use(s)

- Refer to **Section 1.2** - Relevant identified uses.

Section 8– Exposure Controls / Personal Protection

8.1 Control Parameters:

Chemical Name	CAS No.	% Weight	Agency	Exposure Limit and Type
Carbon black (as particulates)	1333-86-4	up to 7.483126%	ACGIH	3 mg/m3 TWA (inhalable fraction)
			US OSHA	3.5 mg/m3 TWA
			US NIOSH	3.5 mg/m3 TWA
Ammonia	7664-41-7	1.05%	ACGIH	17 mg/m3 TWA
				24 mg/m3 STEL
			US OSHA	35 mg/m3 TWA
			US NIOSH	18 mg/m3 TWA
				27 mg/m3 STEL
Sodium borate	1303-96-4	0.2158065%	ACGIH	2 mg/m3 TWA (inhalable fraction)
				6 mg/m3 STEL (inhalable fraction)
			US NIOSH	18 mg/m3 TWA
Titanium dioxide (as particulates)	13463-67-7	up to 7.9576%	ACGIH	10 mg/m3 TWA
			US NIOSH	15 mg/m3 TWA (total dust)

8.2 Exposure Controls:

Appropriate engineering controls

- Use ventilation or other engineering controls to maintain airborne concentrations below occupational exposure limits.

8.3 Personal Protective Equipment

Note: Consider the concentration and amount of product at the workplace when selecting PPE.

Respiratory: Avoid conditions that would create fine mists. If necessary, refer to appropriate regulatory standards.

Eyes/Face: No special eye protection is generally required. Wear safety glasses with side shields, chemical goggles, or complete facial protection if operating conditions create mists that are not adequately controlled. If necessary, refer to appropriate regulatory standards.

Hands/Skin: No special hand or skin protection is generally required. Consider the concentration and amount of material at the specific workplace. Wear protective clothing if engineering controls or work practices are not adequate to prevent significant skin contact. Protective measures may include general protective gloves (e.g., light weight rubber gloves). If necessary, refer to appropriate regulatory standards.

Body: No specific clothing is required. If necessary, refer to appropriate regulatory standards.

Thermal Hazards: None known

Environmental Exposure Controls: Not available

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Note: The data below are typical values and do not constitute a specification.

Appearance: **Physical state:** **Color:** **Odor/Odor threshold:**	colored liquid Liquid Various Not available	**Partition Coefficient n-octanol/water:** **Auto-ignition temperature:**	Not available Not applicable
pH (as supplied):	6.7	**Decomposition temperature:**	Not available
Melting/freezing point:	Not available	**Viscosity:**	Not applicable
Boiling point/range:	Not available	**Molecular weight:**	Not available
Flash point:	Not applicable	**Taste:**	Not available
Evaporation rate:	Not available	**Explosive properties:**	Not available
Flammability:	Not applicable	**Oxidizing properties:**	Not available
Upper/lower explosive limits:	Not applicable	**Surface tension:**	Not applicable
Vapor pressure:	Not available	**Volatile component:**	Not applicable
Water solubility:	Insoluble	**Gas group:**	Not applicable
Vapor density (Air = 1):	Not available	**pH (as solution):**	Not applicable
Specific gravity (Water = 1):	Not available	**VOC:**	Not applicable
Relative density:	Not available	**Particle size range:**	Not available

9.2 Other information

No further data available

Section 10 – Stability and Reactivity

10.1 Reactivity

- This material is considered stable under normal handling and storage conditions.

10.2 Chemical stability

- This material is considered stable under normal handling and storage conditions.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur

10.4 Conditions to avoid

- Heat, flames, sparks, ignition sources

10.5 Incompatible materials

- Strong oxidizing agents

10.6 Hazardous decomposition products

- None known

Section 11 – Toxicological Information

Likely routes of exposure: Skin contact, inhalation of droplets
Potential signs and symptoms of:

Acute oral toxicity:	Practically non-toxic based on oral ATE >5000 mg/kg calculated for product
Acute dermal toxicity:	Practically non-toxic based on animal studies and available data
Acute inhalation toxicity:	Insufficient and/or no data identified for the components in this product
Skin corrosion/irritation:	Ammonia (CAS No. 7664-41-7/1336-21-6) is classified for skin irritation (Category 2). The other components in this product are not irritating to the skin based on animal studies and available data
Serious eye damage/irritation:	Ammonia (CAS No. 7664-41-7/1336-21-6) may cause irritation or burns to the eye if in direct contact. Insufficient and/or no data identified for the other components in this product
Respiratory or skin sensitization:	The components in this product are not sensitizing to the skin based on human and/or animal studies.
Mutagenicity:	No components are classified with respect to mutagenicity by the IARC, NTP, and ACGIH.
Carcinogenicity:	Carbon black (CAS No. 1333-86-4) and titanium dioxide (CAS No. 13463-67-7) particulates are classified as possibly carcinogenic to humans (Category 2); No other components are classified with respect to carcinogenicity by the IARC, NTP, and ACGIH.
Reproductive Toxicity:	Sodium borate (CAS No. 1303-96-4) is classified as a possible reproductive toxicant to humans (Category 1B). According to GHS products with less than 4.5% do not pose a reproductive toxicity concern.
Specific target organ toxicity (single exposure):	Ammonia (CAS No. 7664-41-7/1336-21-6) may cause irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. The other components in this product are not specific target organ toxicants (single exposure) based on the available information, human and/or animal

	studies.
Specific target organ toxicity (repeated exposure):	Repeated or prolonged inhalation of carbon black (CAS No. 1333-86-4) or titanium dioxide (CAS No. 13463-67-7) particulates may damage or impair the respiratory and pulmonary systems; however, inhalation of carbon black or titanium dioxide as particulates is not anticipated given the physical form of the product. Insufficient and/or no data identified for the other components in this product.
Aspiration hazard:	The components in this product are not aspiration hazards based on the available information, human and/or animal studies.

References:
ECHA. 2017. REACH Registered Substances Database.
U.S. National Library of Medicine. 2017. Toxicology Data Network (TOXNET) Database. National Institutes of Health (NIH).

Section 12 – Ecological Information

12.1 Toxicity

- This product is not expected to be harmful or toxic to aquatic life. See ecotoxicity data for the hazardous components below.

Chemical Name	CAS No.	Species	Test Results (mg/L)
Carbon Black	1333-86-4	Fish [Danio rerio]	96-hour LC50 = 10,000
		Daphnia magna	24-hour LC50 = 5,600
		Algae	72-hour EC50 = 10,000
Ammonia	7664-41-7/1336-21-6	Fish [Rainbow trout]	96-hour LC50 = 0.163 – 1.09
		Daphnia magna	48-hour LC50 = 101
Titanium dioxide	13463-67-7	Fish [Pimephales promelas]	96-hour LC50 = >1000
		Algae [Pseudokirchneriella subcapitata]	72-hour EC50 = 100
		Daphnia magna	48-hour LC50 = >1000

12.2 Persistence and degradability

- No data available

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in Soil

- No data available

12.5 Results of PBT and vPvB assessment

- Sodium borate (CAS 1303-96-4) is partially soluble in water and may spread in the aquatic environment. No data available for the hazardous components.

12.6 Other adverse effects

- No further data available

References:
ECHA. 2019. REACH Registered Substances Database.

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Preparing wastes for disposal: Use product for its intended purpose or recycle if possible. Do not allow this material to drain into sewers/water supplies. Dispose of waste in accordance with local, regional, national, and/or international regulations.

Section 14 – Transport Information

Note: This product is not regulated as dangerous goods for transport.

	ADR/RID/ADNR/DOT	IMO/IMDG	ICAO/IATA
14.1 UN number	Not classified	Not classified	Not classified
14.2 UN proper shipping name	Not classified	Not classified	Not classified
14.3 Transport hazard class(es):	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	Not classified
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

Section 15 – Regulatory Information

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

United States

Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):
No components in this product are listed under CERCLA.
Clean Water Act (CWA): No components in this product are listed as toxic pollutants.
Clean Air Act (CAA): No components in this product are listed under the CAA.
Superfund Amendments and Reauthorization Act (SARA) Title III Information:
SARA 302 Components: No components in this product are subject to reporting requirements of S.302.
SARA 311/312 Hazards: No components in this product are SARA Hazards
SARA 313 Components: Ammonia (CAS No. 7664-41-7 / 1336-21-6) is listed as subject to S.313. No other components in this product are subject to S.313.
Toxic Substances Control Act (TSCA):
All components in this product are listed on the non-confidential TSCA inventory.

State Regulations:

California: Carbon black (airborne, unbound particles of respirable size) (CAS No. 1333-86-4) and titanium dioxide (airborne, unbound particles of respirable size) are listed under Proposition 65 (CA Health & Safety Code Section 25249.5). No other components in this product are listed.

Canada

CEPA DSL/NDSL: The components of this product are included on the DSL or are exempt from DSL/NDSL requirements

International:

IARC: Carbon black (CAS No. 1333-86-4) particulate is classified as possibly carcinogenic to humans (Category 2B). Titanium dioxide (CAS No. 13463-67-7) is classified as possibly carcinogenic to humans (Category 2B). No other components in this product are classified with respect to carcinogenicity.

15.2 Chemical Safety Assessment

- None available

Section 16 – Other Information

List of acronyms and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	IMDG: International Maritime Dangerous Goods
ADR: International Carriage of Dangerous Goods by Road	IMO: International Maritime Organization
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine	MARPOL: Maritime Pollution
CAA: Clean Air Act	mg/L: Milligrams per Liter
CAS: Chemical Abstract Service Number	NIH: National Institutes of Health
CEPA: Canadian Environmental Protection Act	NDSL: Non-Domestic Substance List
CERCLA: Comprehensive Environmental Response and Liability Act	NTP: National Toxicology Program
CLP: Classification, Labelling and Packaging Regulation (EC) No 1272/2008	OSHA: Occupational Safety and Health Administration
CWA: Clean Water Act	PBT: Persistent, Bioaccumulative and Toxic
DSL: Domestic Substances List	PPE: Personal Protective Equipment
EC: European Commission	ppm: Parts Per Million
ECHA: European Chemicals Agency	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
EINECS: European Inventory of Existing Chemical Substances	RID: International Carriage of Dangerous Goods by Rail
EPCRA: Emergency Planning and Community Right To Know Act	RTK: Right to Know
GHS: Globally Harmonized System	RTECS: Registry of Toxic Effects of Chemical Substances
HEPA: High Efficiency Particulate Air	SARA: Superfund Amendment and Reauthorization Act
HSE: Health Safety Executive	SDS: Safety Data Sheet
HSDB: Hazardous Substances Data Bank	STEL: Short-term Exposure Limit
IBC: International Bulk Chemical	TOXNET: Toxicology Data Network
IARC: International Agency for Research on Cancer	TSCA: Toxic Substances Control Act
IATA: International Air Transport Association	TWA: Time Weighted Average (8-hour)
ICAO: International Civil Aviation Organization	UN: United Nations
IDLH: Immediately Dangerous to Life or Health	vPvB: very Persistent, very Bioaccumulative

References:

- European Chemicals Agency (ECHA) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- European Chemicals Agency's Classification and Labelling Inventory Database
- United States Occupational Safety and Health Administration (OSHA) Chemical Sampling Information

Disclaimer:
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.

Revision Indicator: This is a new Safety Data Sheet.
Creation Date: December 2, 2019

Color Name	**Product Code**
BLACK MAGIC (44011)	HG1020
NON WP BLACK (44021)	HG1018
ETERNAL (44041)	HG1006
RED DRAWING (44104)	HG2008
CARMINE DRAWING (44105)	HG9100
RED-VIOLET DRAWING (44106)	HG1006
VIOLET DRAWING (44107)	HG8001
BLUE DRAWING (44108)	HG3002
TURQUOISE DRAWING (44109)	HG3600
GREEN DRAWING (44110)	HG4000
LEAF GREEN (44111)	HG4100
NEUTRAL GREY DRAWING (44112)	HG0200
WHITE (44113)	RL05030
BRICK RED DRAWING (44114)	HG2012
RUSSET DRAWING (44115)	HG2502
BROWN DRAWING (44116)	HG7004
INDIGO BLUE DRAWING (44117)	HG1014
WATERPROOF BLACK INDIA (44201, 44203, 44204)	HG1016
YELLOW DRAWING (44205)	HG5004
ORANGE DRAWING (44206)	HG6000
RED_ORANGE DRAWING (44207)	HG2500
ENGROSSING (44314)	HG1008
Total # of Colors:	**22**