24544-XXXX

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: 800-628-1910

1.4 Emergency telephone number

Emergency Telephone: 800-222-1222

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).

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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

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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 |
| | 7664-41-7 | 1.05% | ACGIH | 17 mg/m3 TWA |
| | | | | 24 mg/m3 STEL |
| Ammonia | | | 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 | 13463-67-7 | up to 7.9576% | ACGIH | 10 mg/m3 TWA |
| particulates) | | | US NIOSH | 15 mg/m3 TWA (total dust) |

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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.

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

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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

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 | |
| | | Fish [Pimephales promelas] | 96-hour LC50 = >1000 |
| Titanium dioxide 13463-67-7 | 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.

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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

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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 | NTP: National Toxicology Program |
| Act | |
| CLP: Classification, Labelling and Packaging Regulation (EC) No | OSHA: Occupational Safety and Health Administration |
| 1272/2008 | |
| 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 |