Material Safety Data Sheet: Kiaro! 200D Black Pigment Inkjet Ink

This product is considered an article, which is exempt under the OSHA Hazard Communication Standard, 1910.1200.

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Kiaro! 200D Black Pigment Inkjet Ink
Relevant Identified Uses: Ink for Inkjet Label Printer
Company Name: QuickLabel, An AstroNova Inc. Product Group
Address: 600 East Greenwich Ave.
City, State, Zip Code: West Warwick, RI 02893 USA
Phone Number: +401-828-4000
E-mail: info@QuickLabel.com
URL: www.QuickLabel.com

SECTION II: Hazards Identification

Emergency Overview: Ink cartridge containing black liquid ink with slight odor. Vapor or mist may cause respiratory tract and eye irritation.

US Regulatory Status: Not classified as hazardous
US Label Elements:
Signal Word: Not required
Hazard Warning: Not required
Safety Advice: Not required
Hazardous Component: Not required

EU Classification: Not classified as dangerous.

EU Label Elements:
Symbol and Indication: Not required
R-Phrase: Not required
S-Phrase: Not required
Dangerous Component: Not required
Applicable Label Elements in Accordance with Annex V to 1999/45/EC: Contains 1,2-benzisothiazol-3(2H)-one.
Authorization number under EC No. 1907/2006: Not applicable
Other Hazards: None

SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

Ingredient(s):

Chemical Name/ Generic Name	**CAS#**	**EC# Registration #**	**Concentration/ Concentration Range (%)**	**EU Classification according to 67/548/EEC**	**EU Classification according to (EC) No 1272/2008**		
				Symbol/Indication of Danger	R-Phase* 1	Hazard Class/ Category Code	Hazard Statement *1
Carbon Black	1333-86-4	215-609-9	1-5	None	None	None	None
Triethylene glycol	112-27-6	203-953-2	1-5	None	None	None	None
Glycerin	56-81-5	200-289-5	5-10	None	None	None	None
Ethyleneurea	120-93-4	204-436-4	10-15	Xi/Irritant	R36	Eye Irrit. 2	H319
1,2-benzisothiazol – 3(2H)-one	2634-33-5	220-120-9	<0.05	Xn/Harmful Xi/Irritant Xi/Irritant Xi/Irritant N/Dangerous for the environment	R22 R38 R41 R43 R50	Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1 Eye Dam. 1 Aquatic Acute 1	H02 H315 H317 H318 H400
Water	7732-18-5	231-18-5	60-80	None	None	None	None

*1 Full texts of R-Phrase(s) and Hazard Statement(s) are listed in Section XVI.

Carcinogen(s):		
Chemical Name	**CAS#**	**Reference:**
Carbon Black	1333-86-4	IRAC: Group 2B NTP; OSHA; Annex VI to Regulation (EC) 1272/2008: Not listed

PBT Substance(s) and vPvB Substance(s):

Chemical Name	**CAS#**	**Category:**
No component of this product is a PBT or vPvB substance under Regulation (EC) 1907-2006.	None	None

Substance(s) listed in Candidate List of SVHC:

Chemical Name:	**CAS#**	**Category:**
No component of this product is listed in the Candidate list of SVHC under Regulation (EC) 1907-2006.	None	None

SECTION IV: First Aid Measures

First Aid Measures:

Inhalation:	If symptoms are experienced move victim to fresh air and obtain medical advice.
Ingestion:	Rinse mouth. Give one or two glasses of water. If irritation or discomfort occurs obtain medical advice immediately.
Skin:	Wash with water and soap or mild detergent. If irritation persists obtain medical advice.
Eye:	Immediately flush with lukewarm gently flowing water for 5 minutes or until the chemical is removed. If irritation persists obtain medical advice immediately.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation:	No adverse effects are expected under intended use. Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache, and nausea.
Ingestion:	May cause abdominal pain, diarrhea, dizziness, dullness, headache, nausea, and vomiting.
Skin:	Neither irritation nor sensitization is expected. (See Section XI)
Eye:	May cause mild irritation. (See Section XI)
Chronic Effects:	Not identified.

Medical Conditions Generally Known to be Aggravated by Exposure: Not identified.
Indication of Any Immediate Medical Attention and Special Treatment Needed: None.

SECTION V: Firefighting Measures

Extinguishing Media:
Suitable Extinguishing Media: CO2, water, foam, or dry chemicals
Unsuitable Extinguishing Media: None
Special Hazards: None
Hazardous Combustion Products: CO, CO2, NOx, SOx
Advice for Firefighters: None

SECTION VI: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Prodecures: Avoid contact with skin, eyes, and clothing. Avoid breathing vapor and mist.
Environmental Precautions: Do not release to sewer, surface water, or ground water.
Methods and Material for Containment and Cleaning Up: Wipe off with wet cloth or paper.
Reference to Other Sections: None

SECTION VII: Handling and Storage

Precautions for Handling and Storage: Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor and mist. In case of contact, wash out the contaminated area immediately.
Conditions for Safe Storage, Including Any Incompatibilities: Keep in a cool and dry place. Protect from sunlight. Keep out of the reach of children.
Specific End Uses: Ink for inkjet printer. For more information, please refer to the instructions for this product.

SECTION VIII: Exposure Controls/Personal Protection

Control Parameters:				
Product:	**USA OSHA PEL**	**ACGIH (2013) TLV**	**EU OEL**	**DFG (2012) MAK**
Product (Ink)	Not established	Not established	Not established	Not established
Ingredient(s):				
Carbon Black	TWA: 3.5mg/m3	TWA: 3.0 mg/m3	Not established	Not established
Glycerin	(as mist) Total dust TWA: 15 mg/m3 Respirable fraction TWA: 5mg/m3	Not established	Not established	Inhalable fraction TWA: 50mg/m3
Triethylene glycol	Not established	Not established	Not established	Inhalable fraction TWA: 1000 mg/m3

Exposure Controls:
Engineering Controls: No special ventilation equipment is needed under intended use of this product.
DNEL(s): Not available.
PNEC(s): Not available.

Individual Protection Measures:
Eye/Face Protection: Not Required.
Skin Protection: Not Required.
Respiratory Protection: Not Required.

SECTION IX: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties:
Appearance: Black liquid
Odor: Slight odor
pH: 7-9
Melting Point/Freezing Point (◦C): Not available

Initial Boiling Point and Boiling Range (◦C): Not available
Flash Point: None (Estimate)
Evaporation Rate: Not available
Flammability: Neither flammable nor combustible
Upper/Lower Flammable or Explosive Limits: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 1.0-1.1
Water Solubility: Miscible
Fat Solubility: Not available
Partition Coefficient (n-Octanol/Water): Not available
Auto-Ignition Temperature (◦C): Not available.
Decomposition Temperature (◦C): Not available.
Viscosity (mPa s): 1-5
Explosive Properties: None (Estimate)
Oxidizing Properties: None (Estimate)
Other Information: None

SECTION X: Stability and Reactivity

Reactivity: None
Chemical Stability: Stable.
Possibility of Hazardous Reactions: None
Conditions to Avoid: None
Incompatible Materials: Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products: CO, CO2, NOx, SOx

SECTION XI: Toxicological Information

Information on Toxicological Effects:

Acute Toxicity:
Inhalation: Not available
Ingestion: Not available

Corrosivity/Irritation:

Skin: Non-irritant (rabbit)
OECD Guidelines No. 404 (2002), (EC) 440/2008 Method B4
Eye: Mild irritant (rabbit).
OECD Guidelines No. 405 (2012), (EC) 440/2008 Method B4
Sensitization:
Skin: Non-sensitizer (mouse)
OECD Guidelines No. 429 (2010), (EC) 440/2008 Method B4
Repeated Dose Toxicity: Not available

Carcinogenicity: The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, the amount of inhalation exposure to powdered carbon black is negligible under intended use of this product.

Mutagenicity: Ames test: Negative

Toxicity for Reproduction: Not available

Other Information: Not available

Toxicokinetics, Metabolism and Distribution: Not available

SECTION XII: Ecological Information

Toxicity: Not available
Persistence and Degradability: Not available
Bioaccumulative Potential: Not available
Mobility in Soil: Not available
Results of PBT and vPvB Assessment: No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No. 1907/2006.
Other Adverse Affects: Not available
Contains less than 30% of components with unknown hazards to the aquatic environment.

SECTION XIII: Disposal Considerations

Waste Treatment Methods: Disposal should be subject to federal, state, and local laws.

SECTION XIV: Transport Information

UN Number: None
UN Proper Shipping Name: None
Transport Hazard Class: None
Packing Group: None
Environmental Hazards: Not classified as environmental hazardous under UN Model Regulations and marine pollutant under IMDG Code.
Special Precaution for User: None
Transport in Bulk According to Annex II of MARPOL 73/78 and IBC Code: Not applicable

SECTION XV: Regulatory Information

US Information:

TSCA (Toxic Substance Control Act):

All ingredients are listed in the TSCA Inventory.

SARA Title III, 313:
Chemical Name/ Wt%: None

California Proposition 65:
Chemical Name/ Wt%: None

EU Information:
Safety, Health, and Environmental Regulations/Legislation:
(EC) No. 1907/2006
Authorization: Not regulated
Restriction: Not regulated
(EC) No. 1005/2009: Not regulated
(EC) No. 850/2004: Not regulated
(EC) No. 689/2008: Not regulated
Others: None
Chemical Safety Assessment under (EC) No 1907/2006: Not required

Canada Information:
WHMIS Controlled Product: Not applicable (Manufactured article)

Australia Information:
Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC

SECTION XVI: Other Information

Other Information:
<EU R-phrase according to Directive 67/548/EEC>]
R22: Harmful if swallowed
R36: Irritating to eyes
R38: Irritating to skin
R41: Risk of serious damage to eyes
R43: May cause sensitization by skin contact
R50: Very toxic to aquatic organisms
<EU Hazard statement according to Regulation (EC) No 1272/2008>
H302: Harmful if swallowed
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
H400: Very toxic to aquatic life

<Revised information from the previous version>

<Term explanation>

Annex: None
Date of Issue: November 25, 2014

Literature Reference:

- US Department of Labor, 29CFR Part 1910
- US Environmental Protection Agency, 40CFR Part 372
- US Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- US Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 67/548/EEC, 1999/45/EC
- EU Regulation (EC) No. 1907/2006, (EC). No. 1272/2008, (EC) No 1005/2009, (EC) No. 850/2004, (EC) No. 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance
[NOHSC: 1008]

Abbreviations:
EU: European Union
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern
OSHA PEL: PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration
ACGIH TLV: TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists
EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC Annex, 98/24/EC Annex, 91/322/EEC Annex, 2000/39/EC Annex, 2006/15/EC, 2006/15/EC Annex and 2009/161/EU
DFG MAK: MAK (Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft
DNEL: Derived No-Effect Level
PNEC: Predicted No-Effect Concentration

Revised: November 2016