

MSDS

1 - COMMODITY AND COMPANY IDENTIFICATION

Product Name : **INKJET INKS** – PIGMENT-BASED

Manufacturer Name : BCH Technologies LLC

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2 - CHEMICAL COMPOSITION

Product Name	Symbol	% In Weight	Remark
Acid Dyes / Direct Dyes	NF(Non-Flammable), Xi (Irritant)	8.7 – 12.0	AcidY-23,ReactiveR-23 Direct Bl-199, Direct Bk-168
Polyalkyl Glycol	F (Flammable), Xi (Irritant)	6.3	
Glycol Derivation	F (Flammable), Xi (Irritant)	7.0	
Polyoxyethlene	Xn (NOCIVE)	3.0	
Water	NF(Non-Flammable), NXi (Non-Irritant), Xn (Nocive)	71.7 – 75.0	

3 - HAZARDOUS INGREDIENTS

This product is not considered to be a hazardous substance under "OSHA's" hazard communication standard (29 CFR 1910.1200)

4 - HMIS INFORMATION

Health - 1 (NPCA) Flammability - 1 (NPCA) Reactivity - 0 (NPCA)

5 - PHYSICAL DATA

Melting point - Liquid form -15 ± 5 °C (H2O=0°C)

Boiling point - 100° C (H2O= 100° C) Specific gravity - 1.05 ± 0.10 (H2O=1)

State - Liquid form
Surface area - Unknown
Vapor pressure - 17 mmHg at 20°C
% volatile - 88 – 91.3 %
Solubility in water - Miscible

pH - 6.0 - 9.5

Viscosity (cps) - 1.8 – 2.5 for dye-based ink; Surface tension - 28.0 – 32.0 (dyne/cm)

Appearance and odor - Color concentrated liquid, appreciable odor

6-FIRE & EXPLOSION HAZARD

Flammability classification - non-flammible

Flash point $- >93^{\circ}\text{C}$ (>93.3°C pensky martens closed cup)

Extinguishing media - carbon dioxide,drychemicals, and foam

Protection of fire-fighters - wear individual breathing apparatus

Specific hazards - in case of fire or explosion, do not breath the fumes

7 - FIRST AID MEASURES

Skin contact - Wash in soap and water and rinse with water
Eye contact - Wash immediately with water, opening eyelids.

If irritation continues, see an ophtalmologist

Ingestion - Call a doctor in case of doubt or if symptoms persist

8 - REACTIVITY DATA

Stability - Stable materials Hazardous polymerization - Will not occur

9 - SPILL OR LEAK PROCEDURES

Spills - should be contained, absorbed and placed in suitable

containers for disposal in a RCRA licensed facility

Waste disposal method - must be disposed of as a hazardous waste, as defined by EPA's EP toxicity

specifications, at a RCRA licensed facility

Container disposal - empty containers with less than one inch of residue may be crushed and

landfilled at a licensed facility

10 - SPECIAL PROTECTION METHOD

Respiratory protection - Niosh approved vapor respirators recommended.

Ventilation - Local exhaust ventilation or containment recommended

Protective groves - Recommended

Eye protection - Safty glasses recommended

11 - TOXICOLOGICAL INFORMATION

Acute toxicity - LD50 = 6000 mg/kg (ORAL RAT)

Skin irritation - OCDE404 : Non irritant Eye irritant - OCDE405 : Irritant

12 - ECOLOGICAL INFORMATION

Possible environment impact / ecotoxicity - Ames test : Negative

13 - HANDLING AND STORAGE

Handling - handling without causing dust

Storage - product is stable under normal storage condition

14 - TRANSPORTATION REQUIREMENTS

D.O.T. hazard classification (49 CFR 172) - None / Non-hazardous

D.O.T. labels required : None

Hazardous waste : Yes

I.A.T.A. Dangerous Goods Regulations: Non D.G.

15 - SPECIAL PRECAUTIONS

FDA status - this product does not have FDA approval as a food additive

Label - Xn nocive

R36/37/38

S9

S16

S25

S33

16 - STABILITY

Heat stability test - > 30 days at 70° C

Freeze thaw test - > 6 cycles at -20° C

Room temperature - > 2 years

17 - OTHER INFORMATIONS

Uses - used in desktop and wide format plotter printers

Solvent system - water

18 - HEAVY METAL CONTENT

Test Results:

Trans	T In:	Dalle I ::	4
Item	Unit	RoHS Limit	A
Lead (Pb)	mg/kg	≤1000ppm	N.D.
Cadmium(Cd)	mg/kg	≤100ppm	N.D.
Mercury(Hg)	mg/kg	≤1000ppm	N.D.
Chromium(CrVI)	mg/kg	≤1000ppm	N.D.

-N.D. =not detected (<MDL)

Reported by:

Company Name: BCH Technologies Date: 7/13/2012

Authorized Person: Wen Dai Signature: