

MSDS

1 - COMMODITY AND COMPANY IDENTIFICATION

Product Name : Cleaning Solution for Printhead

Dual Action: Dye and Pigment (AS-CLN-CLEAR)

Triple Action: Dye, Pigment and Sublimation (AS-CLN-GREEN)

Manufacturer Name : BCH Technologies LLC

Add: 4925 West Market Street, Suite 1118-1129, Greensboro, North Carolina, 27407, U.S.A.

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2 - CHEMICAL COMPOSITION

Product Name	Symbol	% In Weight	Remark
Glycol Mixture	NF(Non-Flammable)	8.7 – 12.0	No workplace exposure limits
Surfactant	Xi (Irritant)	4.0-6.3	No workplace exposure limits. Irritating to eyes, respiratory system and ski
Glycol Derivation	F (Flammable), Xi (Irritant)	1.0	Irritating to eyes, respiratory system and ski
Polyoxyethlene	Xn (NOCIVE), Xi (Irritant)	3.0	Irritating to eyes, respiratory system and ski
Water	NF(Non-Flammable), NXi (Non-Irritant), Xn (Nocive)	71.7 – 75.0	No workplace exposure limits

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)

Flash point - $> 120^{\circ}$ C Auto-ignition temp - $> 230^{\circ}$ C

Specific gravity - 1.05 ± 0.10 (H2O=1)

State - Liquid form Surface area - Unknown

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 - $>120^{\circ}$ C ($>120.3^{\circ}$ C pensky martens closed cup)

Extinguishing media - water, carbon dioxide, dry chemicals, 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 - Small quantities may be treated in aerobic water treatment systems.

Larger quantities may be incinerated or landfilled in accordance with all

applicable federal, state, and local laws.

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 = 2000 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

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

Lead(Pb) Arsenic(As) <0.5 ppm < 0.6 ppm <0.5 ppm Barium(Ba) Mercury(Hg) <0.8 ppm Cadmium(Cd) Antimony(Sb) : < 0.6 ppm <0.5 ppm Selenium(Se) <0.5 ppm Chromium(Cr) <0.5 ppm

19. - REGULARTORY INFORMATION

All components listed in TSCA Inventory or exempt under 40 CFR 723.5

• SARA: no reactive hazard, no pressure hazard, no fire hazard.

• DOT/IATA: not regulated by DOT 49 CFR or IATA

• California Proposition 65: no listed chemical

Massachusetts Substance List: no listed chemical

New Jersey Right to Know List: no listed chemical

Pennsylvania Hazardous Substance List: diethylene glycol

Reported by:

Company Name : BCH Technologies Date: 8/19/2016

Authorized Person: Wen Dai Signature: