

## MATERIAL SAFETY DATA SHEET

Distributor:  
General Binding Corporation  
P.O. Box 840  
Booneville, MS 38829

Emergency Tel. No.  
662-720-1300

Revision: Aug. 2005

### Section I - Product Identification

Trade Names/Synonyms:  
Quartet Enduraglide Dry Erase Markers

Part Nos.: 5001M, 5001-1M, 5001-10M,  
5001-12M, 5001-2M, 8401799

### Section II - Hazardous Ingredients

None.

### Section III - Physical/Chemical Characteristics

Boiling Point: N/A  
Melting Point: N/A  
Solubility in Water: N/A  
Specific Gravity (H<sub>2</sub>O=1): N/A  
Vapor Pressure (mmHg): N/A  
Reactivity In Water: Non-Reactive  
Appearance:

Black, Blue, Green and Red Dry Erase Markers

### Section IV - Fire and Explosion Hazard Data

Flash Point: N/A  
Auto Ignition: N/A  
Explosion Limits In Air (% by Volume) : Not Explosive  
Extinguishing Media: No Special Media Required.  
Special Fire Fighting Procedures: No Special Fire Fighting Procedures Required  
Unusual Fire & Explosion Hazards: Combustible

### Section V – Physical Hazards/Reactivity

Hazardous Polymerization Products: None  
Stability: Stable materials to avoid: None  
Incompatibility [Materials to avoid]: None  
Hazardous Decomposition Products: None

### Section VI – Health Hazard Data

Permissible Exposure Level: See Section II for Component PEL/TLVs.  
Primary Routes Of Entry: Eye, Skin, and Ingestion  
Effects and Systems of Acute Exposure: None Expected  
Effects and Systems of Chronic Exposure: None Expected  
Carcinogen Listing: NTP: No IARC: No OSHA: No  
See Section II For Components Affected  
Medical Conditions Usually Aggravated By Over Exposure To This Product: None  
First Aid Measures: None Required  
**No Acute Health Effects Expected.**

### Section VII – Spill and Leak Procedures

Precautions To Be Taken During Storage And Handling: Not for use by children.  
Steps To Be Taken In Case A Material Is Spilled: No Special Spill Procedures Required.  
Waste Disposal Method: Disposal In Accordance With Federal, State and Local Regulations.

### Section VIII – Protective Equipment/Control Measures

None Required

### Section IX – Additional Information And Warnings

Products bearing the CP or AP Certified Products Seal of the Art & Creative Materials Institute are certified in a program of toxicological evaluation by a nationally recognized authority on toxicology associated with leading university to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. 24 hour emergency information may be obtained by calling the Rocky Mountain Poison Control Center @ 303/739-1110.

**This Information Sheet Is For Consumer Use Only.**

# 5590

**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

U.S. Department of Labor  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

IDENTITY(As Used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacture's Name TAISEI CO., LTD.	Emergency Telephone Number (81) 48-996-9503
Address(Number, Street, City, State, and ZIP Code) 986-1, 2-CHOME, YASHIO CITY, SAITAMA PREF. 340-0811, JAPAN	Telephone Number for Information (81) 48-996-9503
Chemical Name Water White Ink	Date Prepared 2007/12/19
Chemical Family Water based pigment Ink	Trade Name

**Section II Hazardous Ingredients/Identity Information**

Hazardous Components	CAS. No.	OSHA PEL	ACGIH(TWA) ppm	Other limits LD <sub>50</sub> mg/kg	% (optional)
Ethylene glycol	107-21-1		50	5.500 Mouse	6.10
1,2-Benzisothiazolin-3-one	2634-33-5				0.20
Sodium Laureth Carboxylate	33939-64-9				0.12
Polyoxyethylene Alkyl ether	71060-57-8				0.20
Polyacrylicacid Copolymer	25113-97-5				2.35
Sodium Polyacrylate	9003-04-7				0.29
Pigment White 6	13463-67-7				21.35
Water	7732-18-50				69.39

**Section III Physical/Chemical Characteristics**

Boiling Point 100-110°C	Specific Gravity(H <sub>2</sub> O=1) 1.34	Auto-ignition temp. n.d.
Vapor Pressure(mm Hg.)(20°C) n.d.	Melting Point <°C	pH in concentrate 8.0~9.2
Vapor Density(AIR=1) n.d.	Evaporation Rate (Butyl Acetate=1) <1	

Solubility in Water Soluble

Appearance and Odor White color Liquid and Slight odor

**section IV Fire and Explosion Hazard Data**

Flash Point(Method Used) (Closed Cap) n.d.	Flammable Limits(Vol.%)	LEL	UEL
		—	—

Extinguishing Media CO<sub>2</sub> gas or Chemical Form

Special Fire Fighting Procedures n.a.

Unusual Fire and Explosion Hazards n.a.

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Chemical Name Water Blue Ink	Date Prepared 2007/12/19
Chemical Family Water based pigment Ink	Trade Name

**Section II Hazardous Ingredients/Identity Information**

Hazardous Components	CAS. No.	OSHA PEL	ACGIH (TWA) ppm	Other limits LD <sub>50</sub> mg/kg	% (optional)
1,2-Benzisothiazolin-3-one	2634-33-5				0.10
Polyoxyethylene Alkyl ether	71060-57-6				0.20
Polyether modified dimethylpolysioxane					1.20
Sodium Laureth Carboxylate	33939-64-9				0.24
Styrene Acrylonitrile Copolymer	9003-54-7				40.67
Pigment Blue 15	147-14-8				0.83
Water	7732-18-50				55.82

**Section III Physical/Chemical Characteristics**

Boiling Point 100-110°C	Specific Gravity (H <sub>2</sub> O=1) 1.06	Auto-ignition temp. n.d.
Vapor Pressure (mm Hg.) (20°C) n.d.	Melting Point <°C	pH in concentrate 6.5-7.5
Vapor Density (AIR=1) n.d.	Evaporation Rate (Butyl Acetate=1) <1	

Solubility in Water Soluble

Appearance and Odor Blue color Liquid and Slight odor

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used) (Closed Cap) n.d.	Flammable Limits (Vol.%)	LEL -	UEL -
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Extinguishing Media CO<sub>2</sub> gas or Chemical Form

Special Fire Fighting Procedures n.a.

Unusual Fire and Explosion Hazards n.a.

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Chemical Name Water Green Ink	Date Prepared 2007/12/19
Chemical Family Water based pigment Ink	Trade Name

**Section II Hazardous Ingredients/Identity Information**

Hazardous Components	CAS. No.	OSHA PEL	ACGIH(TWA) ppm	Other limits LD <sub>50</sub> mg/kg	% (optional)
1,2-Benzisothiazolin-3-one	2634-33-5				0.10
Polyoxyethylene Alkyl ether	71060-57-6				0.20
Polyether modified dimethylpolysioxane					1.20
Sodium Laureth Carboxylate	33939-64-9				0.24
Stylene Acrylonitrile Copolymer	9003-54-7				40.67
Pigment Green 7	1328-53-6				0.33
Basic Yellow 40	12221-86-2				2.08
Water	7732-18-50				54.24

**Section III Physical/Chemical Characteristics**

Boiling Point 100-110°C	Specific Gravity(H <sub>2</sub> O=1) 1.06	Auto-ignition temp. n.d.
Vapor Pressure(mm Hg.)(20°C) n.d.	Melting Point °C	pH in concentrate 6.5-7.5
Vapor Density(AIR=1) n.d.	Evaporation Rate (Butyl Acetate=1) <1	

Solubility in Water Soluble

Appearance and Odor Green color Liquid and Slight odor

**Section IV Fire and Explosion Hazard Data**

Flash Point(Method Used) (Closed Cap) n.d.	Flammable Limits(Vol.%)	LEL	UEL
		-	-

Extinguishing Media CO<sub>2</sub> gas or Chemical Form

Special Fire Fighting Procedures n.a.

Unusual Fire and Explosion Hazards n.a.

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Chemical Name Water Pink Ink	Date Prepared 2007/12/19
Chemical Family Water based pigment Ink	Trade Name

**Section II Hazardous Ingredients/Identity Information**

Hazardous Components	CAS. No.	OSHA PEL	ACGIH(TWA) ppm	Other limits LD <sub>50</sub> mg/kg	% (optional)
1,2-Benzisothiazolin-3-one	2634-33-5				0.10
Polyoxyethylene Alkyl ether	71060-57-6				0.20
Polyether modified dimethylpolysioxane					1.20
Sodium Laureth Carboxylate	33939-64-9				0.24
Stylene Acrylonitrile Copolymer	9003-54-7				40.67
Basic Red 1:1	3068-39-1				0.83
Basic Violet 11	2390-63-8				1.25
Water	7732-18-50				54.57

**Section III Physical/Chemical Characteristics**

Boiling Point 100-110°C	Specific Gravity (H <sub>2</sub> O=1) 1.06	Auto-ignition temp. n.d.
Vapor Pressure (mm Hg. X20°C) n.d.	Melting Point <°C	pH in concentrate 6.5-7.5
Vapor Density (AIR=1) n.d.	Evaporation Rate (Butyl Acetate=1) <1	

Solubility in Water Soluble

Appearance and Odor Pink color Liquid and Slight odor

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used) (Closed Cap) n.d.	Flammable Limits (Vol.%)	LEL	UEL
		—	—

Extinguishing Media CO<sub>2</sub> gas or Chemical Form

Special Fire Fighting Procedures n.a.

Unusual Fire and Explosion Hazards n.a.

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Chemical Name Water Yellow Ink	Date Prepared 2007/12/19
Chemical Family Water based pigment Ink	Trade Name

**Section II Hazardous Ingredients/Identity Information**

Hazardous Components	CAS. No.	OSHA PEL	ACGIH(TWA) ppm	Other limits LD <sub>50</sub> mg/kg	% (optional)
1,2-Benzisothiazolin-3-one	2634-33-5				0.10
Polyoxyethylene Alkyl ether	71060-57-6				0.20
Polyether modified dimethylpolysioxane					1.20
Sodium Laureth Carboxylate	33939-64-9				0.24
Stylene Acrylonitrile Copolymer	9003-54-7				40.67
Basic Yellow 40	12221-86-2				2.08
Water	7732-18-50				54.57

**Section III Physical/Chemical Characteristics**

Boiling Point 100-110°C	Specific Gravity (H <sub>2</sub> O=1) 1.06	Auto-ignition temp. n.d.
Vapor Pressure (mm Hg.) (20°C) n.d.	Melting Point <°C	pH in concentrate 6.5-7.5
Vapor Density (AIR=1) n.d.	Evaporation Rate (Butyl Acetate=1) <1	

Solubility in Water Soluble

Appearance and Odor Yellow color Liquid and Slight odor

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used) (Closed Cap) n.d.	Flammable Limits (Vol.%)	LEL	UEL
		-	-

Extinguishing Media CO<sub>2</sub> gas or Chemical Form

Special Fire Fighting Procedures n.a.

Unusual Fire and Explosion Hazards n.a.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	High temperature and fire sources.

Incompatibility (Materials to Avoid)

Hazardous Decomposition or Byproducts

CO, CO<sub>2</sub> gas

Hazardous Polymerization	May occur		Condition to Avoid
	Will not Occur	X	

**Section VI Health Data**

Route(s) of Entry:	Inhalation?	Yes	Skin?	Yes	ingestion?	Yes
Health Hazards (Acute and Chronic)	Acute:	•Irritate eye	•Skin rash			
	Chronic:	n.d.				
Carcinogenicity:	n.d.	NTP?	IARC Monographs?	OSHA Regulated?		

Signs and Symptoms of Exposure Irritating to skin and eyes.

Medical Conditions/Generally Aggravated by Exposure n.d.

Emergency and First Aid Procedures Ingestion: Call a physician. Eyes: Rinse away thoroughly with water.  
Skin: Wash off with plenty of water and soap.

**Section VII Precautions for Safe Handling and Use**

Steps to be taken in Case Material is Released or Spilled Take up with absorbent materials.

Waste Disposal Method Dispose in accordance with local regulations.

Precaution to Be Taken in Handling and Storing Close cap after use. Avoid high temperature and fire sources.

Other Precautions n.a.

**Section VIII Control Measures**

Respiratory Protection (Specify Type)

Ventilation	Local Exhaust	n.a.	Special	n.a.
	Mechanical (General)	n.a.	Other	n.a.

Protective Gloves n.a. Eye Protection n.a.

Other Protective Clothing or Equipment n.a.

Work/Hygienic Practices Ventilation n.a.

\*Not applicable=n.a.

Not determined=n.d.