1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**COPIC OPAQUE WHITE**
Synonyms	**WHITE WATER COLOR**

Supplier Address
Too Marker Products Inc.
Gakken Bldg., 11F
2-11-8 Nishi-Gotanda,
Shinagawa-ku
Tokyo, 141-0031
JAPAN
TEL: (+81) 3-5719-2657

Emergency Telephone Number	(+81) 3-5719-2657

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Hazardous Components: Zinc Sulfate

1. This is an acute toxicity component.
2. May cause eye irritation.
3. This is a hazardous substance.
4. May cause long-term adverse effects in aquatic environment.

THIS PRODUCT HAS BEEN CERTIFIED BY A TOXICOLOGIST OF THE ARTS & CREATIVE INSTITUTE FOR THE CL SEAL WITH THE FOLLOWING;
WARNING: MAY CAUSE EYE IRRITATION. AVOID DIRECT EYE CONTACT. KEEP FROM CHILDREN. COMPLY WITH THE ASTM STANDARD D-4236. CL APPROVED SEAL.

Boiling Point: N/A DEG F	**Vapor Pressure:** N/A	**Vapor Density (Air = 1):** N/A
Water Solubility: N/A	**Specific Grav. (Water = 1):** Zinc sulfate: 3.2, Titanium dioxide: 3.8	**Percentage Volatiles by Volume:** N/A
Evaporation Rate: N/A		

Appearance: White

Physical State: Paste

No odor

Potential Health Effects	
Principle Routes of Exposure	Eye contact.

Acute Toxicity		
	Eyes	May cause irritation and inflammation with direct eye contact. Avoid rubbing eyes with paint on hands.
	Skin	Harmful if absorbed through skin. May cause irritation and inflammation.
	Inhalation	Harmful if inhaled. May cause irritation to organ of respiration.
	Ingestion	Harmful if swallowed. Ingestion may cause nausea, vomiting, bloody diarrhea and abdominal pains. May cause collapse.

Chronic Effects	Hazardous component Zinc Sulfate is a bioaccumulative toxins. May cause zinc intoxication.
Aggravated Medical Conditions	N/A
Interactions with Other Chemicals	N/A
Environmental Hazard	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Water	7789-20-0	30%
Natural gum	N/A	10%
Titanium dioxide	13463-67-7	50%
Zinc sulfate	7446-19-7	10%

4. FIRST AID MEASURES

	Eye Contact	Flush immediately with flowing water, also under the eyelids, for at least 15 minutes. If irritation develops, consult a physician.
	Skin Contact	Wash skin with soap and water. If skin irritation or pain develops and if there are any appearance changes, consult a physician.
	Inhalation	If inhaled, move to fresh air. Aid in breathing, if necessary, and get medical attention.
	Ingestion	Induce vomiting with a plenty of water (or salt water). Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.
	Notes to Physician	Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
	Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Flammable Properties	None

Flash Point	N/A
Suitable Extinguishing Media	Water Fog, Foam, Co2 and Dry Chemical

Unsuitable Extinguishing Media	N/A

Explosion Data	
Sensitivity to Mechanical Impact	N/A
Sensitivity to Static Discharge	N/A

Specific Hazards Arising from the Chemical	The product itself is non-flammable. However the combustion gas will be venomous since the molecule contains toxic chemical substances (zinc and sulfur). Smoke inhalation should be avoided during the fire extinguishing.

Protective Equipment and Precautions for Firefighters	As in any fire, wear appropriate protective gears (e.g. glove, goggle and mask).

NFPA

Health Hazard N/A

Flammability N/A

Stability N/A

Physical and Chemical Hazards N/A

HMIS

Health Hazard N/A

Flammability N/A

Physical Hazard N/A

Personal Protection N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective gears (e.g. glove, goggle and mask)

Environmental Precautions	Restrict the access of leakage area. If the product was diluted with water, necessary care must be taken to ensure the prevention of leakages of contaminated liquid. Prevent entry into waterways, sewers or confined areas.

Methods for Containment	This is not a regulated product. Spills should be contained, absorbed, and placed in suitable containers for disposal.

Methods for Cleaning Up	N/A

Other Information	N/A

7. HANDLING AND STORAGE

Handling	Avoid unnecessary contact. Avoid contact with skin, eyes and clothing. Use only in area provided with appropriate exhaust ventilation. The container must be sealed each time and stored under appropriate conditions. Wear appropriate protective gears (e.g. glove, goggle and mask). Wash skin and gargle the throat after handling.
Other Information	Rough handling of container must be avoided.

Storage	Keep containers tightly closed in a well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children. Avoid direct sunlight. Do not store together with oxidizing substances or oxidants. Local exhaust is preferred

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	

Chemical Name	ACGIH TWA	OSHA PEL	NIOSH IDLH
Titanium dioxide	10mg/M3	N/A	N/A

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines	Keep containers tightly closed in a well-ventilated place.

Engineering Measures	Showers Eyewash stations Ventilation systems

Personal Protective Equipment		
	Eye/Face Protection	Only necessary if direct contact may occur / use safety goggles.
	Skin and Body Protection	Protective gloves. Protective boots. Protective clothing.
	Respiratory Protection	If exposure limits are exceeded or irritation is experienced, respiratory protection (e.g. dust-protective mask) should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures	N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White

Odor	None

Odor Threshold	No information available

Physical State	Paste

pH	No information available

Flash Point	No information available

		Autoignition Temperature	No information available

Decomposition Temperature	No information available

		Boiling Point/Range	No information available

Melting Point/Range	No information available

Flammability Limits in Air	No information available

		Explosion Limits	No information available

Specific Gravity	Zinc sulfate: 3.2 Titanium dioxide: 3.8

		Solubility	No information available

Evaporation Rate	No data available

		Vapor Pressure	No data available

Vapor Density	No data available

	VOC Content(%)	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended normal storage conditions.
Incompatible Products	May reacts by direct contact with oxidizing substances or oxidants
Conditions to Avoid	Sunlight, heat
Hazardous Decomposition Products	Hazardous decomposition does not occur
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (including 50% of lethal dose)	Ingestion may cause nausea, vomiting, bloody diarrhea and abdominal pains. May cause collapse
Product Information	Harmful if swallowed, inhaled, or absorbed through eye or skin.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chronic Toxicity	Hazardous Component Zinc Sulfate is a bioaccumulative toxins. May cause zinc intoxication.
Carcinogenicity	No data available

Chemical Name	ACGIH	IARC	NTP	OSHA
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

	ACGIH: (American Conference of Governmental Industrial Hygienists) No data available
	IARC: (International Agency for Research on Cancer) No data available
	NTP: (National Toxicity Program) No data available
	OSHA: (Occupational Safety & Health Administration) No data available

Target Organ Effects	N/A

12. ECOLOGICAL INFORMATION

Ecotoxicity	

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated Packaging	Do not re-use empty containers.

US EPA Waste Number	N/A

This product contains one or more substances that are listed with the State of California as a hazardous waste.
The California Prop 65 law does not apply to this product because titanium dioxide is in a matrix.

Chemical Name	California Hazardous Waste

14. TRANSPORT INFORMATION

ADR	Not classified as dangerous good under transport regulations
ADNR	Not classified as dangerous good under transport regulations
RID	Not classified as dangerous good under transport regulations
IATA/CAO	Not classified as dangerous good under transport regulations
IMDG	Not classified as dangerous good under transport regulations

15. REGULATORY INFORMATION

This product is classified and labeled in accordance with EC directives

16. OTHER INFORMATION

Prepared By	
Revision Date	
Revision Note	

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet