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V#088105

SAFETY DATA SHEET

1. Identification of the substance/preparation and company/undertaking.

NAME #484 CHALK BOARD MARKER **S.D.S. NO. #484**

Synonyms Alcohol based pigment ink.

Color Black

Supplied by: UCHIDA OF AMERICA, CORP.
3535 Del Amo Blvd., Torrance, CA 90503
Tel: 310-793-2200, Fax: 310-793-2210

2. Hazards identification.

Irritate eye.

3. Composition/information on ingredients.

Contains:

Chemical name	wt-% Conc	Classification	Exposure
Methoxy Propanol		20-30	100ppm
Ethyl Alcohol		3-6	1000ppm
Isopropyl Alcohol		40-50	400ppm
Resin		5-10	
Pigment Black 7		10-15	

4. First Aid measure.

Exposure Route	Symptom	Treatment
Inhalation	High concentrations - irritation of mucous membranes.	Remove from exposure, rest and keep warm. In severe cases, seek medical attention.
Skin Contact	Slight irritation.	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.
Eye Contact	Irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion	Irritation of gastrointestinal tract.	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Seek immediate medical attention.

Immediate Treatment / Antidote:

Delayed Effects: Ingestion may result in liver and kidney damage.

5. Fire fighting measures.

Suitable Extinguishers Dry chemical, Foam or Carbon dioxide.
Unsuitable Extinguishers Water jet
Hazardous Combustion Products CO, CO₂, Smoke.
Special Equipment for Fire Fighting Self contained breathing apparatus.

6. Accidental Release measures.

Safety Precautions Wear appropriate PPE - See section 8
Environmental Precautions Do not allow material to contaminate sewers.
Clean up Procedure Wipe off with dust cloth and transfer into suitable drum or can. Hold for waste disposal. Wash spill site with plenty of water.

7. Handling & Storage.

Handling Ventilation Good general ventilation.
Recommended procedures & equipment Avoid skin and eye contact. Close cap after used. Avoid spillages.
Storage Temperature range Cool, below 35°C
 Humidity range Dry
Keep away from See section 10
Suitable storage Media Polyethylene or polypropylene.
Precautions against static discharge Use non-sparking equipment.

8. Exposure Controls/personal protection.

Exposure Limits n.d.
Protective Measures
Respiratory: Wear self contained breathing apparatus.
Hand: PVC or butyl rubber gloves.
Eye: Safety goggles.
Skin: Overalls and boots.
Hygiene Measures Always wash thoroughly after handling chemicals.

9. Physical & Chemical Properties.

Appearance	Alcohol color Ink
Odor	Slightly
Boiling Point/range	78-120°C
Freezing Point/range	<-20°C
Flash Point	n.a.
Auto-ignition temperature	n.a.
Explosive limits	n.a.
Vapor Pressure	n.d.
Relative density	0.9-1.1
Solubility in water	Soluble
Solubility in solvent	Soluble in most solvents.

10. Stability & Reactivity.

Stability	Stable under normal conditions.
Known Hazardous reactions	None
Conditions to avoid	Heat, high temperature and fire sources.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	CO, CO ₂

11. Toxicological Information.

Effects

Low acute oral toxicity, however ingestion may cause systemic effects such as damage liver and kidneys which may become apparent later. High vapor concentrations are irritating to mucous membranes and the respiratory tract. Slight to moderate eye and skin irritant. No reported evidence of carcinogenic, mutagenic or adverse reproductive effects.

12. Ecological Information.

Environmental Effects

Mobility	Soluble in Water.
Degradability	n.d.
Aquatic Toxicity	n.d.

13. Disposal considerations.

Substance Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container As substance. Used containers must not be out up or punctured until completely purged of product residues.

14. Transport Information.

UN number	n.a.	Class/Item No.	n.a.
Primary Hazard	n.a.		
Packing Group	n.a.	Emergency Action Code	n.a.
H.T. Number	n.a.		

15. Regulatory Information.

Supply label details	n.a.
Label Name	n.a.
Symbols	n.a.
Risk Phrases	Irritating to eyes.
Safety Phrases	Close cap after use. Avoid contact with skin and eyes.
E.E.O. No	n.a.

Use of this material may be governed by the following regulations

Users are advised to consult these regulations for further information.

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. Other Information.

This material is usually used for: Marking pen ink.

It must not be used for: Avoid high temperature.

Legal Disclaimer:

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Not applicable: n.a. Not determined: n.d.

Revision No. 1 Dated: August 4, 2014

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According to 1907/2006/EC, Article 31

S.D.S. NO. QM-1

1. Identification of the substance/preparation and company/undertaking.

TRADE NAME: #480 Bistro Chalk Marker

INK NAME: GM-1

Color: **All colors**

Relevant identified uses of the substance or mixture and uses advised against

Water based pigment ink.

Manufacturer/Supplier

Uchida of America, Corp

3535 Del Amo Blvd. Torrance, California 90503

Tel: (800) 541-5877 or (310) 793-2200

Fax: (800) 229-7017 or (310) 793-2210

2. Hazards identification.

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Label elements

Not applicable

Hazard statements

Not applicable

Precautionary statements

Not applicable

3. Composition/information on ingredients.

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Chemical name	% Range	Description	GHS Symbols
Ethylene glycol	<4		
Acryl Polymer	4-8		
Aluminum Silicate	10-15		
Water	60-80		
Pigments	<10		

SVHC

This product does not intentionally contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list. Analysis There is no data.

4. First Aid measure.

Description of first aid measures

After Inhalation	Remove from exposure, rest and keep warm. In severe cases, seek medical attention.
After Skin Contact	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.
After Eye Contact	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
After Ingestion	Wash out mouth with water. Do not induce vomiting. Seek immediate medical attention.
After Swallowing	Seek immediate medical advice.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5. Fire fighting measures.**Extinguishing media**

Suitable Extinguishers	Dry chemical, Foam or water jet.
Unsuitable Extinguishers	n.a.
Hazardous Combustion Products	CO, CO ₂ , NO _x , Smoke.
Special Equipment for Fire Fighting	Self contained breathing apparatus.

6. Accidental Release measures.**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up**

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

Absorb in pieces of cloth, vermiculite, or dry sand and clean up with a wet cloth.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling & Storage.**Handling****Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities**Storage**
Requirements to be met by storerooms and receptacles: Store in a cool location.**Further information about storage conditions**

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.**8. Exposure Controls/personal protection.**

Additional information about design of technical systems: No further data; see item 7.

Protective Measures

Respiratory	n.a.
Hand	n.a.
Eye	Safety goggles.
Skin	n.a.
Hygiene Measures	n.a.

Control parameters

Not applicable

Additional information:

PEL = Permissible Exposure Limit (OSHA)

TLV = Threshold Limit Value (ACGIH)

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

9. Physical & Chemical Properties.

Information on basic physical and chemical properties

General Information

Appearance	Liquid
Odor	Slightly
Boiling Point/range *	100-110°C
Freezing Point/range *	<0°C
Flash Point *	n.a.
Auto-ignition temperature *	n.a.
Explosive limits *	n.a.
Vapor Pressure *	n.d.
Relative density	1,0-1,4
Solubility	Water: Miscible Solvent: Alcohol slightly.

(* Solvent Data)

10. Stability & Reactivity.

Stability	Stable under normal conditions.
Known Hazardous reactions	Reactions with acids forms Hydrogen gas (flammable).
Conditions to avoid	Heat, high temperature and fire sources.
Materials to avoid	Acids, Oxidizing agents.
Hazardous decomposition products	CO, CO ₂ , NO _x

11. Toxicological Information.

Information on toxicological effects Acute toxicity

Low acute oral toxicity, however ingestion may cause systemic effects such as damage liver and kidneys which may become apparent later. High vapor concentrations are irritating to mucous membranes and the respiratory tract. Slight to moderate eye and skin irritant. No reported evidence of carcinogenic, mutagenic or adverse reproductive effects.

12. Ecological Information.

Toxicity	
Aquatic toxicity:	No further relevant information available.
Additional ecological information:	Ecological data are not available.
General notes	
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	

13. Disposal considerations.**Waste treatment methods****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

Unleaded packaging

Recommendation: Disposal must be made according to official regulations.

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14. Transport Information.

UN number	n.a.
Transport hazard class(es)	n.a.
Packing Group	n.a.
Emergency Action Code	n.a.

15. Regulatory Information.

Safety, health and environmental regulations/legislation specific for the substance or mixture
USA The following information relates to product regulation specific to the USA.

Use of this material may be governed by the following regulations

16. Other Information.

This material is usually used for:	Marking pen ink.
It must not be used for:	Avoid high temperature.

Legal Disclaimer

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Not applicable: n.a.

Not determined: n.d.

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