# **SAFETY DATA SHEET**



#### 1. Identification

Product identifier Marker, Anchor (All Colors)

Other means of identification None.

Recommended use Printing ink.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Diagraph Marking & Coding Address 5307 Meadowland Parkway,

Marion IL, 62959

**USA** 

**Telephone** 800-521-3047

**E-mail** msds@diagraphmsp.com

Contact person Customer Service

Emergency phone number Infotrac 800-535-5053 US only

+1-352-323-3500 International

#### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

Environmental hazards Hazardous to the aquatic environment, Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Causes serious eye irritation. May cause an allergic skin reaction. Harmful to aquatic life with long

lasting effects.

**Precautionary statement** 

Prevention Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Titanium dioxide	13463-67-7	10 - 35

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Carbon black	1333-86-4	6
C.I. Pigment Green 7	1328-53-6	4.02
Copper chlorophthalocyanine	12239-87-1	2.97
Propane -1,2 -diol	57-55-6	0 - 5
Tetramethyl decynediol	126-86-3	0 - 1.5
Surfactant	Proprietary	0 - 1.3
Ammonium hydroxide	1336-21-6	< 0.5
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0.1

#### **Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

#### 4. First-aid measures

Inhalation Skin contact

Eye contact

Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

media

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store between 35°F (2°C) and 120°F (49°C). Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Ammonium hydroxide (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
Copper chlorophthalocyanine (CAS 12239-87-1)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide to Chem	iical Hazards		
Components	Туре	Value	Form
Ammonium hydroxide (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
C.I. Pigment Green 7 (CAS 1328-53-6)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Copper chlorophthalocyanine (CAS 12239-87-1)	TWA	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
US. Workplace Environmental Exp	osure Level (WEEL) Guides		
Components	Type	Value	Form
Propane -1,2 -diol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.
ogical limit values No b	iological exposure limits noted for the i	ngredient(s).	

#### Bio

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Face shield is recommended. Eye/face protection

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Liquid. **Physical state Form** Liquid.

Color According to product specification.

Odor Characteristic. **Odor threshold** Not available. Not available. рH Melting point/freezing point Undetermined. 212 °F (100 °C) Initial boiling point and boiling

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

23 hPa (17 mm Hg) Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Fully miscible. Partition coefficient Not available.

(n-octanol/water)

Product is not self-igniting. **Auto-ignition temperature** 

**Decomposition temperature** Not available. Not available. **Viscosity** 

Other information

Not explosive. **Explosive properties** Not oxidizing. Oxidizing properties

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation. May cause an allergic skin reaction.

Marker, Anchor (All Colors) SDS US **Eye contact** Causes serious eye irritation.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

Components Species Test Results

Ammonium hydroxide (CAS 1336-21-6)

Acute Oral

LD50 Rat 350 mg/kg

Carbon black (CAS 1333-86-4)

Acute Dermal

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 8000 mg/kg

Propane -1,2 -diol (CAS 57-55-6)

Acute Dermal

LD50 Rabbit 20800 mg/kg

Oral

LD50 Rat 22000 mg/kg

Titanium dioxide (CAS 13463-67-7)

Acute Inhalation

LC50 Rat 3.43 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Inhalation of carbon black or titanium dioxide dust may cause cancer, however due to the physical

form of the product, inhalation of dust is not likely.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans. Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

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**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components		Species	Test Results			
Ammonium hydroxide (CAS 1336-21-6)						
Aquatic						
Crustacea	LC50	Daphnia magna	0.66 mg/l, 48 hours			
C.I. Pigment Green 7	(CAS 1328-53-6)					
Aquatic						
Acute						
Fish	LC50	Oncorhynchus mykiss	355.6 mg/l, 96 Hours			
Chronic						
Crustacea	NOEC	Daphnia magna	>= 1 mg/l, 21 days			
Carbon black (CAS 13	333-86-4)					
Aquatic						
Acute						

Persistence and degradability

No data is available on the degradability of this product.

Leuciscus idus

**Bioaccumulative potential** 

Fish

Partition coefficient n-octanol / water (log Kow)

Propane -1,2 -diol (CAS 57-55-6) -0.92

LC50

**Mobility in soil** The product is miscible with water. May spread in water systems.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

>= 1000 mg/l, 96 Hours

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

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the IBC Code

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Ammonium hydroxide (CAS 1336-21-6) Listed. C.I. Pigment Green 7 (CAS 1328-53-6) Listed. Copper chlorophthalocyanine (CAS 12239-87-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Serious eye damage or eye irritation Classified hazard Respiratory or skin sensitization categories

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US state regulations** 

**US. Massachusetts RTK - Substance List** 

Ammonium hydroxide (CAS 1336-21-6)

Carbon black (CAS 1333-86-4)

Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

Ammonium hydroxide (CAS 1336-21-6)

C.I. Pigment Green 7 (CAS 1328-53-6)

Carbon black (CAS 1333-86-4)

Copper chlorophthalocyanine (CAS 12239-87-1)

Propane -1,2 -diol (CAS 57-55-6)

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium hydroxide (CAS 1336-21-6)

C.I. Pigment Green 7 (CAS 1328-53-6)

Carbon black (CAS 1333-86-4)

Copper chlorophthalocyanine (CAS 12239-87-1)

Propane -1,2 -diol (CAS 57-55-6)

Titanium dioxide (CAS 13463-67-7)

**US. Rhode Island RTK** 

Carbon black (CAS 1333-86-4)

Propane -1,2 -diol (CAS 57-55-6)

Titanium dioxide (CAS 13463-67-7)

**California Proposition 65** 



WARNING: This product can expose you to chemicals including Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

alpha-Methylstyrene (CAS 98-83-9) Listed: November 2, 2012

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene glycol (CAS 107-21-1) Listed: June 19, 2015

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#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

### 16. Other information, including date of preparation or last revision

Issue date 02-June-2017
Revision date 19-August-2018

Version # 02

HMIS® ratings Health: 2

Flammability: 1 Physical hazard: 0

NFPA ratings



#### **Disclaimer**

Diagraph Marking & Coding cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).