

Material Safety Data Sheet**HMIS®****HEALTH****1****REACTIVITY****0****FLAMMABILITY****1****PERSONAL PROTECTION****B****SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Identity:** Brite-Mark H2O, All Colors**Item No.:** Black(91426), Blue(91603), Green(91602), Orange(91604), Red(91428), White(91425), Yellow(91427)**Other Names:** 916 Plastic**Formula:** A426M(Black), A603M(Blue), A602M(Green), A604M(Orange), A428M(Red), A425M(White), A427M(Yellow)

Another Exclusive Product of: ITW Dykem	Emergency Telephone Number 1-800-535-5053 (Domestic), 1-352-323-3500 (International)
Address (Number, Street, City, State, and ZIP Code) 805 East Old 56 Highway Olathe, KS 66061-4914	Telephone Number for Information 1-800-443-9536 or 1-913-397-9889
Product Class: Water Based Marker	Date Prepared 6/10/11
	Signature of Preparer (Optional) Regulatory Dept.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	%(Opt.)
Water	7732-18-5	No data	No data	No data	40 - 50
Propylene Glycol	57-55-6	No data	No data	No data	1 - 10
Glycol Ether TPM	25498-49-1	No data	No data	No data	1 - 10

May contain one or more of the following..

Titanium Dioxide	13463-67-7	TWA 10mg/m3	TWA 10mg/m3	Nuisance dust*	1 - 15
Yellow Pigment	13515-40-7	No data	No data	Nuisance dust*	1 - 15
Blue Pigment	147-14-8	No data	No data	Nuisance dust*	1 - 15
Orange Pigment	2814-77-9	No data	No data	Nuisance dust*	1 - 10
Red Pigment	2786-76-7	No data	No data	Nuisance dust*	1 - 10
Carbon Black	1333-86-4	No data	No data	Nuisance dust*	1 - 10

* Nuisance dust as free dust only, not as bound in paint or ink.

SECTION 3 HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW** – Thin viscosity odorless liquid. **Warning!** Slightly combustible liquid and vapor if heated above 200 F. Keep away from heat, sparks and flame. May cause eye, skin and respiratory tract irritation. If swallowed do not induce vomiting. Get medical attention.**POTENTIAL HEALTH EFFECTS****Eyes:** Liquid may cause slight irritation.**Skin:** Liquid may cause slight skin irritation.**Ingestion:** Ingestion of liquid may cause vomiting.**Inhalation:** May cause respiratory tract irritation.**CHRONIC HEALTH EFFECTS:** No data.

SECTION 4 FIRST AID MEASURES

Eyes – Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation – Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin – Flush skin with plenty of water. Remove contaminated clothing and shoes.

Ingestion – If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point (Method Used) >212° F	Flammable Limits	LEL No data	UEL No data
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Extinguishing Media -

Use water fog, foam, dry chemical or CO2. Use water spray to cool fire-exposed containers and to protect personnel.

Special Fire Fighting Procedures -

Keep containers cool and vapors down with water spray. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards – Toxic fumes , gases or vapors may evolve on burning.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid with non-combustible floor absorbent and place in non-leaking container; seal properly and dispose of properly in compliance with federal, state, and local regulations.

LARGE SPILL: Evacuate area of unprotected personnel. Eliminate all ignition sources. Stop spill at source if safe to do so. Handling equipment must be grounded to prevent sparking. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of properly in compliance with federal, state, and local regulations.

SECTION 7 HANDLING AND STORAGE

HANDLING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flames, static electricity, or other sources of ignition

STORAGE:

Keep away from heat, sparks and open flames. Keep out of reach of children. Keep container tightly sealed when not in use. Store in cool, well-ventilated place away from incompatible materials. Information on this Material Safety Data Sheets refers to ink used in pens and markers, however, it applies to these inks in bulk. The inks are contained in capillary or valve reservoirs and will not spill or leak under normal conditions.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Type) –

Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

Engineering Controls	Local Exhaust	Not usually needed	Special	None
	Mechanical (General)	Yes	Other	None

Protective Gloves – Chemical resistant gloves if skin contact is possible (consult your safety equipment supplier).

Eye Protection – Not normally required if used as intended. Wear chemical splash goggles in compliance with OSHA regulation if splashing is possible.

Other Protective Clothing or Equipment -

Not usually necessary. For bulk material, if direct contact is possible, wear apron, boots, face shield, etc. as needed.

Work/Hygienic Practices -

Follow label instructions. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	207 to 212 ^o F	Specific Gravity (H₂O = 1) @70 ^o F	>1
Vapor Pressure (mm-Hg @ 70^o F)	No Data	Melting Point	No Data
Vapor Density (AIR = 1)	Greater than one (1)	Evaporation Rate (Butyl Acetate = 1)	Less than one (1)
Solubility in Water	Complete	pH	No Data

Appearance and Odor – Thin viscosity odorless liquid

VOCs:

FORMULA#/COLOR	GRAMS PER LITER	% BY WEIGHT			FORMULA#/COLOR	GRAMS PER LITER	% BY WEIGHT
A426M Black	197	18.52			A428M Red	131	12.27
A603M Blue	177	15.57			A425M White	238	19.00
A602M Green	176	15.56			A427M Yellow	210	18.53
A604M Orange	181	16.00					

SECTION 10 STABILITY AND REACTIVITY

Chemical	Unstable		Conditions to Avoid – None known.
Stability	Stable	X	
Incompatibility (Materials to Avoid) - Strong oxidizing and reducing agents, strong alkalies and strong acids.			
Hazardous Decomposition or Byproducts - Carbon dioxide, carbon monoxide, smoke, soot and various organic oxidation by-products.			
Hazardous	May Occur		Conditions to Avoid - No data
	Will Not Occur	X	
Polymerization			

SECTION 11 TOXICOLOGICAL INFORMATION

No data.

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION (Not meant to be all inclusive)

Domestic Highway (Containers < 1 Quart are ORM-D)	Domestic Air Shipments (Pens)
Proper Shipping Name: Not Regulated	Proper Shipping Name: Varies
Hazard Class/Subsidiary Hazard: Not Regulated	Hazard Class/Subsidiary Hazard: Varies
UN/NA No.: Not Regulated	UN/NA No.: Varies
Packing Group: Not Regulated	Packing Group: Varies
Label Required: Not Regulated	Label Required: Varies

SECTION 15 REGULATORY INFORMATION (Not meant to be all inclusive - selected regulations represented)**U.S. FEDERAL REGULATIONS:**

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	2B	No

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SECTION 313: This product does not contain toxic chemicals that are listed and may require reporting under SARA Title III Sec. 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: Warning: This product may contain (Trace quantities) chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16 OTHER INFORMATION

MSDS Status: Revised Section(s):

WARNING! The use of this product is beyond the control of the manufacturer and distributor; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer and distributor warrant only that this product meets the specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer and distributor for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.