Material Safety Data Sheet

Issuing Date 14-Nov-2011 **Revision Date** **Revision Number** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name **AZW-M-1 CLASS I WATERBORNE PAINT**

Product Code(s) **980311**

Recommended Use Traffic paint

Product Technology W/B

Supplier Address
Ennis Paint Inc.
5910 North Central Expressway
Suite 1050
Dallas TX 75206
T: 800.331.8118
800.331.8118 (For Technical Inquiries)

Chemical Emergency Phone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

DANGER!

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed
Causes central nervous system depression.
May cause skin, eye, and respiratory tract irritation
May adversely affect liver and kidney.
Cancer hazard
WARNING! This product contains a chemical known in the State of California to cause cancer.

Appearance White **Physical State** Emulsion. **Odor** Slight, Ammonia

Potential Health Effects
Principle Routes of Exposure Eye contact. Skin contact. Inhalation.

Acute Toxicity

Eyes May cause irritation.

Skin Harmful if absorbed through skin. May cause irritation.

Inhalation Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

Ingestion Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Inhalation, ingestion, or skin absorption of methanol can cause blindness. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Aggravated Medical Conditions Respiratory disorders. Lungs. Pre-existing eye disorders. Skin disorders. Liver disorders. Kidney disorders. Central nervous system. Gastrointestinal tract. Blood disorders. Central Vascular System (CVS). Hematopoietic system.

Interactions with Other Chemicals Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Titanium dioxide	13463-67-7	7-13
Methyl alcohol	67-56-1	5-10
Propylene glycol	57-55-6	1-5
2-Butoxyethanol	111-76-2	1-5
Quartz	14808-60-7	0.1-1

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point > 201°F / 93.8°C

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion Data
Sensitivity to Mechanical Impact None
Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	**Health Hazard** 2	**Flammability** 1	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health Hazard** 2	**Flammability** 1	**Physical Hazard** 0	**Personal Protection** X

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling Ensure adequate ventilation. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butylamine (n-) 109-73-9	S* Ceiling: 5 ppm	(vacated) S* (vacated) Ceiling: 5 ppm (vacated) Ceiling: 15 mg/m^3 Ceiling: 5 ppm Ceiling: 15 mg/m^3 S*	IDLH: 300 ppm Ceiling: 5 ppm Ceiling: 15 mg/m^3
Molybdenum 7439-98-7	TWA: 10 mg/m^{3}inhalable fraction TWA: 3 mg/m^{3}respirable fraction	(vacated) TWA: 10 mg/m^3	IDLH: 5000 mg/m^3
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m^3, as oil mist, mineral STEL: TWA: 10 mg/m^3, as oil mist, mineral	TWA: 5 mg/m^3, as oil mist, mineral	
Petroleum distillates, hydrotreated light paraffinic 64742-55-8	TWA: 5 mg/m^3 STEL: 10 mg/m^3 (as oil mist)	TWA: 5 mg/m^3 (as oil mist)	
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	TWA: 5 mg/m^3, as oil mist, mineral STEL: TWA: 10 mg/m^3, as oil mist, mineral	TWA: 5 mg/m^3, as oil mist, mineral	
White mineral oil 8042-47-5	TWA: 5 mg/m^{3}inhalable fraction excluding metal working fluids, highly & severely refined	TWA: 5 mg/m^3 (vacated) TWA: 5 mg/m^3	IDLH: 2500 mg/m^3 TWA: 5 mg/m^3 STEL: 10 mg/m^3
Magnesium oxide fume 1309-48-4	TWA: 10 mg/m^{3}inhalable fraction	TWA: 15 mg/m^{3}fume, total particulate (vacated) TWA: 10 mg/m^{3}total particulate	IDLH: 750 mg/m^{3}fume
Magnesium carbonate 546-93-0		TWA: 15 mg/m^{3}total dust TWA: 5 mg/m^{3}respirable fraction (vacated) TWA: 15 mg/m^{3}total dust (vacated) TWA: 5 mg/m^{3}respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Talc 14807-96-6	TWA: 2 mg/m^3	(vacated) TWA: 2 mg/m^3	IDLH: 1000 mg/m^3 containg no asbestos and <1% quartz TWA: 2 mg/m^3
Kaolin 1332-58-7	TWA: 2 mg/m^{3}particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m^{3}total dust TWA: 5 mg/m^{3}respirable fraction (vacated) TWA: 10 mg/m^{3}total dust (vacated) TWA: 5 mg/m^{3}respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Feldspar 68476-25-5	TWA: 10 mg/m^3 (inhal) 3 mg/m^3 (resp) PNOC	TWA: 5 mg/m^3 (resp) 15 mg/m^3 (total) PNOC	
Aluminum hydroxide 21645-51-2	TWA: 1 mg/m^{3}respirable fraction		
Barium sulfate 7727-43-7	TWA: 10 mg/m^3	TWA: 15 mg/m^{3}total dust TWA: 5 mg/m^{3}respirable fraction (vacated) TWA: 10 mg/m^{3}total dust (vacated) TWA: 5 mg/m^{3}respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Vinyl acetate 108-05-4	STEL: 15 ppm TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m^3 (vacated) STEL: 20 ppm (vacated) STEL: 60 mg/m^3	Ceiling: 4 ppm 15 min Ceiling: 15 mg/m^3 15 min
Acetaldehyde 75-07-0	Ceiling: 25 ppm	TWA: 200 ppm TWA: 360 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 180 mg/m^3 (vacated) STEL: 150 ppm (vacated) STEL: 270 mg/m^3	IDLH: 2000 ppm
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m^3 (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m^3 (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m^3 (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m^3 STEL: 325 mg/m^3 STEL: 250 ppm

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m^3 (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
Quartz 14808-60-7	TWA: 0.025 mg/m^{3}respirable fraction	30/(%SiO2+2) mg/m^3 TWA, Total Dust;250/%SiO2+5) mppcf TWA, respirable fraction; 10/(%SiO2+2) mg/m^3 TWA, respirable TWA: 0.1 mg/m^3 (vacated)	IDLH: 50 mg/m^3 respirable dust TWA: 0.05 mg/m^3 respirable dust
Calcium carbonate 471-34-1		TWA: 15 mg/m^3 TWA: 5 mg/m^3 (vacated) TWA: 15 mg/m^3 (vacated) TWA: 5 mg/m^3	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m^3	TWA: 15 mg/m^{3}total dust (vacated) TWA: 10 mg/m^{3}total dust	IDLH: 5000 mg/m^3
Limestone 1317-65-3		TWA: 15 mg/m^{3}total dust TWA: 5 mg/m^{3}respirable fraction (vacated) TWA: 15 mg/m^{3}total dust (vacated) TWA: 5 mg/m^{3}respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Silicon Dioxide - hydrated 7631-86-9	10 mg/m^3	20 mppcf TWA; ((80)/(% SiO2) mg/m^3)	IDLH: 3000 mg/m^3 TWA: 6 mg/m^3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and Body Protection Protective gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White.	**Odor**	Slight, Ammonia.
Odor Threshold	No information available	**Physical State**	Emulsion
pH	No information available.		
Flash Point	> 201°F / 93.8°C	**Autoignition Temperature**	No information available.
Decomposition Temperature	No information available.	**Boiling Point/Boiling Range**	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available.		
Specific Gravity	1.55 - 1.75	**Solubility**	Insoluble
Evaporation Rate	No information available	**Vapor Pressure**	No data available.
Vapor Density	No data available.	**VOC (g/l)**	<100

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	None known based on information supplied.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information No acute toxicity information is available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat) 4 h 64000 ppm (Rat) 4 h
2-Butoxyethanol	= 470 mg/kg (Rat)	= 400 mg/kg (Rabbit) = 2270 mg/kg (Rat)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Quartz	500 mg/kg (Rat)		
Titanium dioxide	> 10000 mg/kg (Rat)		> 6820 mg/m^3
Propylene glycol	20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-

Chronic Toxicity

Chronic Toxicity Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation. Inhalation, ingestion, or skin absorption of methanol can cause blindness. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
2-Butoxyethanol	A3	Group 3		
Quartz	A2	Group 1	Known	X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3: Not Classifiable as to its Carcinogenicity to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Target Organ Effects Respiratory system. Liver. Kidney. Central nervous system (CNS). Blood. Central vascular system (CVS). Eyes. Gastrointestinal tract (GI). Hematopoietic system. Lungs. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product Information LC50/96h/Fathead minnows = >750 mg/L

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol	-	LC50 96 h: 13500 - 17600 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	-
Propylene glycol	EC50 96 h: = 19000 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 41 - 47 mL/L static (Oncorhynchus mykiss) LC50 96 h: = 51400 mg/L static (Pimephales promelas) LC50 96 h: = 51600 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 710 mg/L (Pimephales promelas)	EC50 = 710 mg/L 30 min	EC50 48 h: > 1000 mg/L Static (Daphnia magna) EC50 24 h: > 10000 mg/L (Daphnia magna)
2-Butoxyethanol		LC50 96 h: = 1490 mg/L static (Lepomis macrochirus) LC50 96 h: = 2950 mg/L (Lepomis macrochirus)		EC50 24 h: 1698 - 1940 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)

Chemical Name	Log Pow
Methyl alcohol	-0.77
2-Butoxyethanol	0.81

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number U001
U154

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream: F039		U154

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components are listed on the TSCA Inventory.
DSL All components are listed either on the DSL or NDSL.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Feldspar	68476-25-5	13.485	1.0
Barium sulfate	7727-43-7	2.38	1.0
Methyl alcohol	67-56-1	5.5	1.0
2-Butoxyethanol	111-76-2	1.1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Acetaldehyde	75-07-0	Carcinogen
Quartz	14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Magnesium carbonate	X	X			X
Talc	X	X	X		X
Kaolin	X	X	X		X
Feldspar			X		
Barium sulfate	X	X	X		
Methyl alcohol	X	X	X	X	X
2-Butoxyethanol	X	X	X	X	X
Quartz	X	X	X	-	X
Titanium dioxide	X	X	X	-	X
Limestone	X	X	X		X
Ammonium hydroxide	X	X	X		
Propylene glycol	X	-	X	-	X

International Regulations

Mexico - Grade Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Methyl alcohol		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m^3 Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m^3
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m^3 Mexico: STEL 75 ppm Mexico: STEL 360 mg/m^3
Quartz		Mexico: TWA= 0.1 mg/m^3
Titanium dioxide		Mexico: TWA= 10 mg/m^3 Mexico: STEL= 20 mg/m^3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D1A Very toxic materials
D1B Toxic materials
D2B Toxic materials
D2A Very toxic materials

Chemical Name	NPRI
Methyl alcohol	X
2-Butoxyethanol	X

Legend
NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
Issuing Date	14-Nov-2011
Revision Date	
Revision Note	Initial Release.

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 and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. 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 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. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

End of Safety Data Sheet