

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 1472 ACRYLIC ZONE MARKING PAINT 133 GREEN  
**Version #** 01  
**Revision date** 05-16-2011  
**CAS #** Mixture  
**Product code** 1472-133  
**Product use** Paint.  
**Manufacturer/Supplier** Kelly-Moore Paint Co., Inc.  
**Address** 987 Commercial St., San Carlos, CA 94070  
**E-mail:** rstetson@kellymoore.com  
**Telephone number:** 1-800-874-4436  
**E-mail** Not available.  
**Contact person** Robert Stetson  
**Emergency Telephone Number:** 1-800-424-9300

## 2. Hazards Identification

**Physical state** Liquid.  
**Appearance** Milky white to colored liquid.  
**Emergency overview** WARNING  
Causes skin, eye and respiratory tract irritation.  
**OSHA regulatory status** This product is hazardous according to OSHA 29 CFR 1910.1200.  
**Potential health effects**  
**Routes of exposure** Inhalation. Eye contact. Skin contact.  
**Eyes** Causes eye irritation.  
**Skin** Causes skin irritation.  
**Inhalation** Causes respiratory tract irritation. Prolonged inhalation may be harmful.  
**Ingestion** Ingestion may cause irritation and malaise.  
**Target organs** Central nervous system. Eyes. Respiratory tract. Skin.  
**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.  
**Signs and symptoms** Skin and eye irritation. Respiratory tract irritation. Vapors may cause drowsiness and dizziness.  
**Potential environmental effects** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Methanol	67-56-1	<2
Titanium dioxide	13463-67-7	<0.5
Carbon black	1333-86-4	<0.2
Vinyl acetate	108-05-4	<0.2

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

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.
<b>Skin contact</b>	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions.

### Notes to physician

Treat symptomatically.

### General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

**Flammable properties** The product is not flammable.

### Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### Protection of firefighters

**Protective equipment and precautions for firefighters** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental Release Measures

**Personal precautions** Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up** Should not be released into the environment.

Large Spills: Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.

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

## 7. Handling and Storage

**Handling** Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

**Storage** Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Methanol (67-56-1)	STEL	250 ppm
	TWA	200 ppm
Vinyl acetate (108-05-4)	STEL	15 ppm
	TWA	10 ppm

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Methanol (67-56-1)	PEL	200 ppm 260 mg/m <sup>3</sup>
<b>Engineering controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.	
<b>Personal protective equipment</b>		
<b>Eye / face protection</b>	Wear approved safety goggles.	
<b>Skin protection</b>	Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.	
<b>Respiratory protection</b>	Use NIOSH certified, air purifying respirators with N-, P-, or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. protection provided by air-purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134. Consult a qualified industrial hygienist or Safety Professional for respirator selection guidance.	
<b>General hygiene considerations</b>	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.	

## 9. Physical & Chemical Properties

<b>Appearance</b>	Milky white to colored liquid.
<b>Color</b>	Various.
<b>Odor</b>	Slightly ammoniacal.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	7 - 10
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	< 1 (n-BuAc=1)
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	> 1 (Air=1)
<b>Specific gravity</b>	Not available.
<b>Solubility (water)</b>	Moderately soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous decomposition products</b>	Carbon oxides. Silicon oxides.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

**Acute effects** Causes skin, eye and respiratory tract irritation. In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Ingestion may cause irritation and malaise.

### Local effects

#### US ACGIH Threshold Limit Values: Skin designation

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

### Sensitization

Not a skin sensitizer.

### Chronic effects

Prolonged or repeated contact may dry skin and cause dermatitis. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

### Carcinogenicity

Potentially carcinogenic components are typically only present in trace amounts. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.

#### ACGIH Carcinogens

Acetaldehyde (CAS 75-07-0)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Carbon black (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

Crystalline silica (CAS 14808-60-7)

A2 Suspected human carcinogen.

Titanium dioxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

Vinyl acetate (CAS 108-05-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Acetaldehyde (CAS 75-07-0)

2B Possibly carcinogenic to humans.

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Crystalline silica (CAS 14808-60-7)

1 Carcinogenic to humans.

Titanium dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

Vinyl acetate (CAS 108-05-4)

2B Possibly carcinogenic to humans.

#### US NTP Report on Carcinogens: Anticipated carcinogen

Acetaldehyde (CAS 75-07-0)

Anticipated carcinogen.

#### US NTP Report on Carcinogens: Known carcinogen

Crystalline silica (CAS 14808-60-7)

Known carcinogen.

### Further information

Components of the product may be absorbed into the body through the skin.

## 12. Ecological Information

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### Persistence and degradability

No data is available on the degradability of this product.

### Bioaccumulation / Accumulation

No data available.

### Mobility in environmental media

The product is miscible with water. May spread in water systems.

### Partition coefficient (n-octanol/water)

Not available.

## 13. Disposal Considerations

### Waste codes

#### US RCRA Hazardous Waste U List: Reference

Acetaldehyde (CAS 75-07-0)

U001

Methanol (CAS 67-56-1)

U154

### Disposal instructions

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

### Waste from residues / unused products

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

**Contaminated packaging**

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

**14. Transport Information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**15. Regulatory Information****US federal regulations**

This product is hazardous according to OSHA 29 CFR 1910.1200.

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

Not regulated.

**US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity**

Vinyl acetate (CAS 108-05-4) 5000 LBS

**US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity**

Vinyl acetate (CAS 108-05-4) 1000 LBS

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Acetaldehyde (CAS 75-07-0) 0.1 %

Methanol (CAS 67-56-1) 1.0 %

Vinyl acetate (CAS 108-05-4) 0.1 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Acetaldehyde (CAS 75-07-0) Listed.

Methanol (CAS 67-56-1) Listed.

Vinyl acetate (CAS 108-05-4) Listed.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

Methanol: 5000

Vinyl acetate: 5000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**

No

**Section 311/312 (40 CFR 370)**

No

**Inventory status**

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

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations**

WARNING: This product contains chemicals known to the State of California to cause cancer.

**US - California Hazardous Substances (Director's): Listed substance**

Acetaldehyde (CAS 75-07-0)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Methanol (CAS 67-56-1)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Acetaldehyde (CAS 75-07-0)	Listed: April 1, 1988 Carcinogenic.
Carbon black (CAS 1333-86-4)	Listed: February 21, 2003 Carcinogenic.
Crystalline silica (CAS 14808-60-7)	Listed: October 1, 1988 Carcinogenic.

**US - Massachusetts RTK - Substance: Listed substance**

Acetaldehyde (CAS 75-07-0)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.
Methanol (CAS 67-56-1)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Acetaldehyde (CAS 75-07-0)	500 LBS
Methanol (CAS 67-56-1)	500 LBS
Vinyl acetate (CAS 108-05-4)	500 LBS

**US - New Jersey RTK - Substances: Listed substance**

Acetaldehyde (CAS 75-07-0)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.
Methanol (CAS 67-56-1)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Acetaldehyde (CAS 75-07-0)	Listed.
Carbon black (CAS 1333-86-4)	Listed.
Crystalline silica (CAS 14808-60-7)	Listed.
Methanol (CAS 67-56-1)	Listed.
Titanium dioxide (CAS 13463-67-7)	Listed.
Vinyl acetate (CAS 108-05-4)	Listed.

**16. Other Information****Further information**

HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 2\*  
 Flammability: 1  
 Physical hazard: 0

**NFPA ratings**

Health: 2  
 Flammability: 1  
 Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Additional information is given in the Material Safety Data Sheet.

**Issue date**

05-16-2011