

1. Product and Company Identification

Material name 1240 ACRY-SHIELD EXTERIOR FLAT 14 FROST
Version # 03
Issue date 12-15-2010
Revision date 05-18-2012
Supersedes date 05-18-2012
CAS # Mixture
Product code 1240-014
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 Not available.
Emergency Telephone Number: CHEMTREC: 1-800-424-9300

2. Hazards Identification

Physical state Liquid.
Appearance Milky white to colored liquid.
Emergency overview CAUTION

Prolonged or repeated contact may dry skin and cause irritation.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
Routes of exposure Inhalation. Skin contact.
Eyes Direct contact with eyes may cause temporary irritation.
Skin Prolonged or repeated contact may dry skin and cause irritation.
Inhalation Prolonged inhalation may be harmful.
Ingestion Ingestion may cause irritation and malaise.
Target organs Central nervous system. 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 Defatting of the skin. Vapors may cause drowsiness and dizziness.
Potential environmental effects The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Titanium dioxide	13463-67-7	<22
Zinc oxide	1314-13-2	<1.5

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

Eye contact	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Skin contact	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention if irritation persists after washing.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if any discomfort continues.
Ingestion	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 firefighting: follow the general fire precautions indicated in the workplace. 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. Use water spray to keep fire-exposed containers cool.

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

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Use safety glasses, goggles, or face shield to protect eyes.

Skin protection Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Respiratory protection	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.
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.

9. Physical & Chemical Properties

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

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

Sensitization	Not a skin sensitizer.
Acute effects	In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Ingestion may cause irritation and malaise.
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

Aluminium hydroxide (CAS 21645-51-2)	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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline silica (CAS 14808-60-7)	1 Carcinogenic to humans.
Silica (CAS 61790-53-2)	3 Not classifiable as to carcinogenicity to humans.
Silicon dioxide (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7)
US NTP Report on Carcinogens: Known carcinogen

2B Possibly carcinogenic to humans.

Crystalline silica (CAS 14808-60-7)

Known To Be Human Carcinogen.

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

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
Zinc oxide (1314-13-2)		
Aquatic		
Crustacea	LC50 Water flea (Daphnia magna)	0.098 mg/l, 48 Hours
Ecotoxicity	This product has been identified as having potential environmental concerns.	
Environmental effects	The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.	
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.	

13. Disposal Considerations

Waste codes	Not regulated.
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

UN number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide), MARINE POLLUTANT
Transport hazard class(es)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS No.	F-A, S-F

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 313 - Toxic Chemical: De minimis concentration

Zinc oxide (CAS 1314-13-2) 1.0 % N982

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

Zinc oxide (CAS 1314-13-2) N982 Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
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 this product complies with the inventory requirements administered by the governing country(s)

State regulations

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

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

Silica (CAS 61790-53-2) Listed.
Silicon dioxide (CAS 7631-86-9) Listed.
Zinc oxide (CAS 1314-13-2) Listed.

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

Crystalline silica (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Crystalline silica (CAS 14808-60-7) Listed.
Silicon dioxide (CAS 7631-86-9) Listed.
Titanium dioxide (CAS 13463-67-7) Listed.
Zinc oxide (CAS 1314-13-2) Listed.

US. Massachusetts RTK - Substance List

Crystalline silica (CAS 14808-60-7) Listed.
Silica (CAS 61790-53-2) Listed.
Silicon dioxide (CAS 7631-86-9) Listed.
Titanium dioxide (CAS 13463-67-7) Listed.
Zinc oxide (CAS 1314-13-2) Listed.

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

Zinc oxide (CAS 1314-13-2) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Crystalline silica (CAS 14808-60-7) Listed.
Silica (CAS 61790-53-2) Listed.
Silicon dioxide (CAS 7631-86-9) Listed.
Titanium dioxide (CAS 13463-67-7) Listed.
Zinc oxide (CAS 1314-13-2) Listed.

16. Other Information

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

HMIS® ratings Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.