

MATERIAL SAFETY DATA SHEET

KEIM Ecosil-ME



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KEIM Ecosil-ME
CHEMICAL FAMILY: Aqueous solution of alkali silicate and additives
PRODUCT USE: Silicate interior coating

MANUFACTURER:

KEIM Mineral Coatings of America, Inc.
10615 Texland Boulevard, #600
Charlotte, NC 28273
Phone: 1-704-588-4811
Emergency Phone: only in US and Canada
1 800 535 5053 (INFOTRAC)

2. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: (Also see section 11)

EMERGENCY OVERVIEW: CAUTION EYE IRRITANT. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION.

ROUTES OF ENTRY: Skin and eye contact.

Appearance: Odorless pasty material in various colors.

CARCINOGENICITY: See section 11.

NTP: Yes Quartz, IARC: Yes Quartz, group 1 Titanium dioxide, group 2B, OSHA: No
California Proposition 65: Yes (Crystalline silica)

Note: Carcinogen risk present only by inhalation of dust or mist.

This material is considered hazardous by the OSHA Hazard Communication Standard. (29CFR1910.1200)

MATERIAL SAFETY DATA SHEET

KEIM Ecosil-ME



3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS#	% By Wt.
Feldspar-group minerals	68476-25-5	10 - 25
Calcium carbonate	471-34-1	10 - 25
Barium sulfate	7727-43-7	5 - 10
Quartz	14808-60-7	2 - 15
Titanium Dioxide	13463-67-7	5 - 10
Pigments	Various	<10

4. FIRST AID MEASURES:

SKIN: Wash with soap or mild detergent and large amounts of water. Do not use solvents or thinners.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get immediate medical if irritation occurs.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION: Remove to fresh air, get medical attention

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Product is not flammable. Use extinguishing agent suitable for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: None.

6. ACCIDENTAL RELEASE MEASURES:

SPILL AND LEAK PROCEDURES: Collect into suitable containers.

MATERIAL SAFETY DATA SHEET

KEIM Ecosil-ME



7. HANDLING AND STORAGE

STORAGE: Store in closed original containers. Protect from heat and exposure to direct sun. Protect from freezing.

HANDLING: Wear clothing, gloves and glasses to avoid contact with skin and eyes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Component	CAS#	Exposure Limits
Quartz	14808-60-7	0.025 mg/ m ³ TWA ACGIH
Calcium carbonate	471-34-1	1 mg/ m ³ TWA ACGIH
Titanium Dioxide	13463-67-7	10 mg/ m ³ TWA ACGIH
Barium sulfate	7727-43-7	10 mg/ m ³ TWA ACGIH
Pigments	Various	See section 11

ENGINEERING CONTROLS: Use in a well ventilated area.

RESPIRATORY PROTECTION: Not required under normal conditions of use.

SKIN PROTECTION: Clothing and gloves suitable to avoid skin contact.
Use butyl rubber or nitrile rubber gloves and protective clothing.

EYE PROTECTION: Safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	paste
Color	various
Flashpoint	n.a.
Viscosity* at 20°C	1500-2000* mPa
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Solubility in Water	miscible
pH	11-12
Density	1.49-1.56* g/cm ³ @20°C

*Values are for freshly produced material and may change over time.

MATERIAL SAFETY DATA SHEET

KEIM Ecosil-ME



10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Strong acids and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Although ACGIH and OSHA exposure limits are established for certain ingredients (see section 8), this product is sold as a paste and, when used as intended, does not generate dust. Thus the product as such does not pose a hazard resulting from respiration of dust or particulates.

The International Agency for Research on Cancer (IARC) has concluded that crystalline silica inhaled in the form of quartz from occupational sources should be classified as carcinogenic to humans (Group 1)
Titanium dioxide - IARC classification is group 2B, possibly carcinogenic to humans based on animal studies. There is inadequate evidence in humans.
ACGIH A4 Not classifiable as a human carcinogen.

Depending on the color, various pigments are used that contain Iron oxide, chromium III, antimony, manganese and/or antimony ingredients. These materials can cause various serious health effects if their dusts are inhaled at concentrations above the permissible exposure limits.

12. ECOLOGICAL INFORMATION

Avoid contamination of ground water or waterways. Do not discharge into sewers.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not regulated.

MATERIAL SAFETY DATA SHEET

KEIM Ecosil-ME



15. REGULATORY INFORMATION

All components of this product are on the TSCA Inventory.

SARA Title III:

This product contains no toxic chemicals which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

Note: Entries under this section cover only those regulations typically addressed in the MSDS generating process, such as, TSCA, and EPCRA/SARA Title III.

16. OTHER INFORMATION

HAZCOM LABEL: CAUTION EYE IRRITANT. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION.

rtk Ecosil-ME(v2).doc

Version 2 includes changes to sections 3.

This MSDS conforms to the American National Standard, ANSI Z400.1-2004.

To the best of our knowledge, the information contained in this MSDS is accurate.

It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

Version 2:

November 12, 2007

Version 1:

September 12, 2007

KEIM ECOSIL-ME(v2).doc