

MATERIAL SAFETY DATA SHEET

KEIM Ecotec



1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KEIM Ecotec
CHEMICAL FAMILY: Alkylsilicone resin with alkoxy groups
PRODUCT USE: Water repellent

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. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: (Also see section 11)
EMERGENCY OVERVIEW: WARNING: FLAMMABLE LIQUID AND VAPOR.
RISK OF SERIOUS EYE DAMAGE.
IRRITANT TO SKIN, EYES AND RESPIRATORY PASSAGES.
OVEREXPOSURE MAY CAUSE HEADACHE, DIZZINESS, DROWSINESS,
NAUSEA, KIDNEY, LIVER AND CENTRAL NERVOUS SYSTEM EFFECTS.
SWALLOWING MAY AFFECT VISION OR CAUSE BLINDNESS
KEEP OUT OF REACH OF CHILDREN.

Appearance: Yellowish liquid with a slight characteristic odor.

Routes of Entry: Skin and eye contact and inhalation.

Carcinogenicity: NTP-No, IARC-No, OSHA-No

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

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

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% By Wt.
Octyl triethoxy silane	35435-21-3	60 - 75
Polydimethyl siloxane, amino functional	67923-07-3	10 - 30
Propanoic acid	79-09-4	1 - 5
Ethanol	64-17-5	varies
Methanol	67-56-1	<1

4. FIRST AID MEASURES:

SKIN: Remove contaminated clothing and shoes Wash with soap or mild detergent and water. Do not use solvents or thinners.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Get medical attention 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. If breathing is difficult administer oxygen and get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical. Use water spray to cool containers in fire area. Do not use full water jet.

FIRE FIGHTING: May emit toxic fumes. Use self-contained breathing apparatus and full protective clothing. Fight fires from a safe distance due to explosion hazard.

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**6. ACCIDENTAL RELEASE MEASURES:**

SPILL AND LEAK PROCEDURES: Remove all sources of ignition. Wear appropriate personal protective equipment; contain spills onto inert absorbent and place in suitable containers using non sparking equipment.

7. HANDLING AND STORAGE:

HANDLING: Keep away from heat sparks or flame. Do not smoke when using. Avoid contact with skin, eyes or clothing. Observe all necessary precautions for handling flammable liquids. Do not breathe vapors or mist. Remove contaminated clothing and wash before re-use.

STORAGE: Store closed containers in cool, dry area away from heat, direct sunlight. Keep in a well-ventilated area suitable for flammable material storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE LIMITS:

Component	CAS#	Exposure Limits
Propanoic acid	79-09-4	10 ppm ACGIH
Ethanol	64-17-5	1000 ppm ACGIH
Methanol	67-56-1	200 ppm TWA, 200 ppm STEL ACGIH

ENGINEERING CONTROLS: Use in a well ventilated area with controls and equipment suitable for handling flammable liquids.

RESPIRATORY PROTECTION: Use NIOSH approved respirator for exposure to vapor or mist.

SKIN PROTECTION: Use PVC, vinyl or rubber gloves.
Use clothing and shoes suitable to prevent skin contact.
Check suitability recommendations by protective equipment manufacturers.

EYE PROTECTION: Safety goggles with side shields.

General Hygiene: Wash thoroughly after handling. Immediately remove soiled and contaminated clothing. Wash before re-use. Do not eat or drink in area.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM:	Liquid
COLOR:	Yellowish
ODOR:	Slight
BOILING POINT:	Not determined
FLASH POINT:	77 °F (25 °C)
pH: (25 °C).....	5-6*
SOLUBILITY IN WATER:	Completely miscible
VAPOR PRESSURE: (20 °C).....	Not determined
DENSITY: (20 °C)	~1.0* g/cm ³
IGNITION TEMPERATURE:	509 °F (265 °C)
VISCOSITY (dynamic):	1-10* mPas @ 25 °C

* Values are for freshly produced material and may vary over time.
Note: explosion limit for released ethanol; 3.5 - 15 vol %

10. STABILITY AND REACTIVITY:

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition at temperatures above 300 °F (150 °C) causes release of small amounts of formaldehyde.

INCOMPATIBILITIES/CONDITIONS TO AVOID: Reacts slowly with water to release ethanol.

11. TOXICOLOGICAL INFORMATION:

May cause serious eye damage

Ingestion or inhalation of high concentrations may cause damage to the gastrointestinal tract, liver, kidneys and central nervous system.

Overexposure may cause dizziness, drowsiness, nausea, vomiting and narcotic effects.

Ingestion may affect vision or cause blindness due to presence of methanol.

Irritant to skin, eyes and respiratory passages.

Prolonged or repeated exposure may cause dermatitis.

May be harmful by absorption through skin.

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12. ECOLOGICAL INFORMATION

Hydrolysis produces ethanol, silanol and/or siloxanol compounds.

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Avoid contamination of ground water or waterways.

13. DISPOSAL CONSIDERATIONS:

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

14. TRANSPORT INFORMATION:

DOT SHIPPING NAME: FLAMMABLE LIQUID, N.O.S. (alkyl alkoxysilane)
CLASS 3, UN 1993, Packing group III

15. REGULATORY INFORMATION:

All components of this product are on the TSCA Inventory.

SARA Title III:

This product does not contain reportable quantities of toxic chemicals 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.

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16. OTHER INFORMATION:

HAZCOM LABEL: WARNING: FLAMMABLE LIQUID AND VAPOR.
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RISK OF SERIOUS EYE DAMAGE.
OVEREXPOSURE MAY CAUSE HEADACHE, DIZZINESS, DROWSINESS,
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SWALLOWING MAY AFFECT VISION OR CAUSE BLINDNESS
KEEP OUT OF REACH OF CHILDREN.

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Version 4 reviewed

Version 3 includes changes to sections 3 and 8

Version 2 includes changes to sections 2, 9 and 11.

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 4

September 18, 2013

Version 3

November 9, 2007

Version 2

September 13, 2007

Version 1

February 14, 2006

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