

MATERIAL SAFETY DATA SHEET

KEIM Lime Remover



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KEIM Lime Remover

CHEMICAL FAMILY: Cleaning agent with silicic acid

PRODUCT USE: Cleaning agent

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:

DANGER!

SEVERE IRRITANT TO SKIN AND EYES. MAY CAUSE EYE DAMAGE.

OVEREXPOSURE CAUSES BURNS.

TOXIC BY INGESTION. MAY AFFECT BONES AND GASTROINTESTINAL TRACT.

ROUTES OF ENTRY: Skin and eye contact.

Appearance: Clear, light pink liquid with a characteristic odor.

CARCINOGENICITY:

NTP: No, IARC: No, OSHA: No

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

HMIS: Health: 2 Flammability: 0 Reactivity: 0

NFPA: Health: 2 Flammability: 0 Reactivity: 0

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3. COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS#	% By Wt.
Fluorosilicic acid	16961-83-4	2.5 - 10

4. FIRST AID MEASURES:

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

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

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 help.

INHALATION: Not applicable

5. FIRE FIGHTING MEASURES

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

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and full protective clothing. Overheating of product will release toxic and corrosive vapors: Hydrogen fluoride, silicon tetrafluoride. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES:

SPILL AND LEAK PROCEDURES: Wear protective clothing. Do not allow product to reach soil, sewage system or any water sources. Avoid contact with skin and eyes. Absorb with liquid binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust) and place in container for disposal according to local regulations (see Section 13). Clean affected areas thoroughly.

7. HANDLING AND STORAGE

HANDLING: Wear protective clothing, gloves and glasses to avoid contact with skin and eyes. Prevent formation of aerosols. Ensure good ventilation/exhaust of the workplace.

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STORAGE: Store in closed original containers. Do not store together with alkalis (caustic solutions). Store away from metals. Protect from heat and exposure to direct sun. Protect from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Component	CAS#	Exposure Limits
Fluorosilicic acid *As fluorine	16961-83-4	2.5 mg/m ³ ACGIH*

ENGINEERING CONTROLS: Use in a well ventilated area.

RESPIRATORY PROTECTION: For exposure to vapor or mist, or If airborne concentration become irritating, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134.

SKIN PROTECTION: Clothing and rubber gloves suitable to avoid skin contact. Use butyl rubber or nitrile rubber gloves and protective clothing. Check suitability recommendations by protective equipment manufacturers, especially towards chemical breakthrough resistance.

EYE PROTECTION: Safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear light pink liquid
Odor	Characteristic
Flashpoint	>100 °C
Boiling range	~ 100 °C
Viscosity at 20°C	Not determined
Vapor pressure	23 hPa
Density at 20°C	1.1* g/cm ³
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable
Solubility in Water	Fully miscible
pH	Acidic

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

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

POLYMERIZATION: Will not occur.

INCOMPATIBILITIES: Keep away from acids, alkalis, oxidizing agents and metals to avoid exothermic reactions.

At high temperatures, SiF₄ and HF will be released.

11. TOXICOLOGICAL INFORMATION

Fluorosilicic acid (16961-83-4): Acute oral LD50: 430 mg/kg (rat)

Product is irritant to skin and eyes and mucous membranes.

Ingestion: Irritant effect possible

Affects bones and gastrointestinal tract.

Sensitization: No sensitizing effects known.

12. ECOLOGICAL INFORMATION

AOX-indication: Based on our current information, this product does not contain any organic bounded halogen.

There are no eco-toxicological assessments.

Avoid contamination of ground water or waterways. Do not discharge into surface waters or drains.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: FLUOROSILICIC ACID
CLASS 8, UN 1778, PACKING GROUP II

IMDG: FLUOROSILICIC ACID
CLASS 8, UN 1778, PACKING GROUP II

IATA: FLUOROSILICIC ACID

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CLASS 8, UN 1778, PACKING GROUP II

15. REGULATORY INFORMATION

TSCA status: All components of this product are on the TSCA Inventory.

DSL status: All components of this product are on the DSL Inventory.

SARA (section 311/312):

Reactive hazard: no
Pressure hazard: no
Fire hazard: no
Immediate/acute: yes
Delayed/chronic: yes

SARA Title III:

To the best of our knowledge, 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.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Canadian WHMIS: Class E

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:

DANGER!

SEVERE IRRITANT TO SKIN AND EYES.

MAY CAUSE EYE DAMAGE. OVEREXPOSURE CAUSES BURNS.

TOXIC BY INGESTION. MAY AFFECT BONES AND GASTROINTESTINAL TRACT.

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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.

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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 2.2

June 23, 2013

KEIM LIME REMOVER(v2.2).doc