

SECTION 1: CHEMICAL PRODUCT - COMPANY IDENTIFICATION

ViChem
 100 N I-45, Suite 152A
 Conroe, TX 77301
 Phone: 1-800-895-8353

PRODUCT: ViChem RHA-10
MSDS CREATION DATE: 01 Dec08
MSDS REVISION DATE: none

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS Number</u>	<u>% By Weight</u>
ViChem RHA-10	Proprietary	Proprietary

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATINGS: (SCALE 0-4): HEALTH=2 FIRE=0 REACTIVITY=0

SECTION 4: FIRST AID MEASURES

INHALATION: In case of overexposure to dusts, immediately move person(s) from contaminated area to fresh air. Transport to a medical facility.

SKIN: Remove contaminated clothing immediately. Flush contaminated skin with large quantities of water for fifteen minutes. Seek medical attention.

EYES: In case of contact, immediately wash eyes with large amounts of water for fifteen minutes, occasionally lifting the lower and upper lids. Seek medical attention.

Ingestion: If conscious, immediately give large quantities of water. Do not induce vomiting. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point	None
Flammability Limits	Not Flammable, Non Combustible
Auto-Ignition Temperature.	Not Applicable
Extinguishing Media	Water, Class A Fire Extinguishers

Product may smolder, which may not be readily detectable. Large piles must be disturbed to insure smoldering material is extinguished.

Unusual Fire and Explosion Hazards: Product will react with strong oxidants that may cause the material to increase in temperature, smolder and even burn. Under these conditions, Carbon Monoxide gas may be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill / Leak Procedures: For spills clean-up personnel should be protected against contact with skin and eyes. Avoid inhalation of dust. Finely divided material should be vacuuming or wet sweeping methods to prevent dispersal of dust. Do not use compressed air. Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations.

Regulatory Requirements: Release of this material in a solid form which causes air pollution may require notification of U.S EPA, depending on conditions of air permit. Release of product will not require emergency notification under EPCRA, CERCLA or CAA.

Disposal: Follow applicable Federal, state and local regulations.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Avoid the generation of large quantities of dusts and airborne particulates. Practice good housekeeping.

Special Handling: Do not store product adjacent to acids, corrosive materials, materials that generate corrosive gases or incompatible materials.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

VENTILATION: Ventilation, as described in the current *Industrial Ventilation Manual* produced by the American Conference of Governmental Industrial Hygienists, shall be provided in areas where exposures are above the permissible exposure limits or threshold limit values specified by OSHA or other local, state, and federal regulations.

RESPIRATORY PROTECTION A respirator should be worn whenever airborne concentrations exceed the threshold limitvalue (TLV) or other recommended limits, in accordance with the OSHA Respiratory Protection Standard (29 CFR 1910.134). A qualified industrial hygienist should be consulted to perform exposure assessment.

PROTECTIVE CLOTHING Use appropriate protective clothing and safety equipment when handling this product. An exposure assessment should be conducted by a qualified industrial hygienist. Oper respiratory protection.

EYE PROTECTION Safety glasses should be worn when handling this product

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	(°F) Not Applicable
Density	20-25 lbs./cubic foot
Vapor Pressure (mmHg@25.7C°)	Not Applicable
Vapor Density ((Air=1))	Not Applicable
Solubility in Water	Limited Solubility
Evaporation Rate (Ethyl Ether=1)	Not Applicable
pH Information	pH 10 when placed in Water
Percent Volatile by Volume	Not Applicable
Appearance and Odor	Black Granular Material with slightly burnt odor

SECTION 10: STABILITY AND REACTIVITY

Stability: is stable under normal storage and handling conditions.

Polymerization: Not Applicable

Chemical Incompatibilities: Will react with strong acids and oxidants.

Conditions to Avoid: Storage with strong acids or oxidants.

Hazardous Decomposition Products: Carbon Monoxide may be generated when heated in the absence of a stoichiometric amount of oxygen for complete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Calcium Oxide: Calcium Oxide or Quicklime reacts in water to form Calcium Hydroxide, a weak base, and releases heat. Calcium oxide dust is a strongly corrosive material caustic to living tissue, including nose, throat, and upper respiratory tract.

Magnesium Oxide: Magnesium oxide reacts in water to form magnesium hydroxide, a weak base. Magnesium hydroxide is a strongly corrosive material caustic to living tissue, including nose, throat, and upper respiratory tract.

Cristobalite Silica: Cristobalite is a crystalline form of silica that will cause silicosis and cancer in its respirable form.

Amorphous Silica: Amorphous Silica is not classified as a human carcinogen..

SECTION 12: HEALTH HAZARD INFORMATION

Primary Route(s) of Entry The primary route of entry is inhalation. ViChem RHA-10 Dust consists of fine particles that are easily dispersed in the air and settle slowly.

ACUTE EFFECTS OF EXPOSURE

Inhalation Exposure to high concentrations of ViChem RHA-10 dusts may result in irritation and/or sensitization of the lungs and other mucous membranes. Acute silicosis results from short-term exposure to very large amounts of silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels.

Skin Contact Excessive contact with ViChem RHA-10 dust may cause irritation or sensitization, possibly leading to dermatitis.

Eye Contact Impact of dust particles on the eye may cause temporary damage to the eye or possible scar the retina, thus producing long term damage. Dust particles will cause irritation of the eyes.

Ingestion Ingestion of harmful amounts is highly unlikely due to its solid insoluble form. Ingestion of dusts may cause nausea and/or vomiting.

CHRONIC EFFECTS OF OVEREXPOSURE

Excessive and Repeated Exposures to ViChem RHA-10: Simple chronic silicosis may result from long-term exposure (more than 20 years) to low amounts of silica dust. Nodules of chronic inflammation and scarring provoked by the silica dust form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD). Accelerated silicosis occurs after exposure to larger amounts of silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in

accelerated silicosis than in simple silicosis. For a detailed report on silica, see the NIOSH Hazard Report, "Health Effects of Occupational Exposure to Crystalline Silica", April 2002, <http://www.cdc.gov/niosh/pdfs/02-129.pdf>. **Carcinogenicity:** Silica was listed as a known human carcinogen in U.S. Department of Health and Human Services, Public Health Service National Toxicology Program's Tenth Report to Congress. Environmental Health Perspectives, Volume 105(7), July 1997, "An IARC working group of 19 experts in chemical carcinogenesis and seven industrial or governmental observers met in October 1996 in Lyon to prepare updated monographs and evaluations on crystalline and amorphous silica,etc.The final conclusion based upon all the available data was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1) and that amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3)." Environmental Health Perspectives is the peer-reviewed journal of the National Institute of Environmental Health Sciences, is an important vehicle for the dissemination of environmental health information

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this substance.

SECTION 14: TRANSPORT INFORMATION

D.O.T. INFORMATION: is not listed as a hazardous substance in 49 CFR 172.101

NFPA 704M RATING: Health 2 Flammability 0 Reactivity 0

SECTION 15: REGULATORY INFORMATION

OSHA Regulations (29 CFR)

Air Contaminant (29 CFR 1910.1000, Table Z): Cristobalite is listed as an air contaminant. The restrictions for Cristobalite are more strict than for total and respirable dust.

EPA Regulations (40 CFR) Resource Conservation and Recovery Act (RCRA) – ViChem RHA-10 is not a listed hazardous waste nor will be a characteristic waste.

Comprehensive Emergency Response Compensation and Liability Act (CERCLA) – Superfund: ViChem RHA-10 is not listed as hazardous substance

SARA 311/312: ViChem RHA-10 is not required to be listed.

SARA 313: ViChem RHA-10 is not subject to reporting requirements.

SECTION 16: OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

ViChem reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging, and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.