

OxiKit Zeolite Sodium 13X

SECTION 1. IDENTIFICATION

Product name : OxiKit Zeolite Sodium 13X

Number : 2021

Product Use Description : Adsorbents

Manufacturer or supplier's details : OxiKit, LLC
1328 Neiman Lane
Houston, TX 77091
USA

Telephone : +1-415-323-3316 :

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

: Beads or pellets

Color : tan

Odor : none

OxiKit Zeolite Sodium 13X

Classification of the substance or mixture

Classification of the substance or mixture : Carcinogenicity, Category 1A, Inhalation

GHS Label elements, including precautionary statements

Symbol(s) : 

Signal word : Danger

Hazard statements : May cause cancer by inhalation.

Precautionary statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.

Response:
IF exposed or concerned: Get medical advice/ attention.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified : The product gets hot as it first adsorbs water.

Carcinogenicity

NTP: Quartz (SiO₂) 14808-60-7
Known carcinogen

OxiKit Zeolite Sodium 13X

IARC: Quartz (SiO₂) 14808-60-7
 Group 1: Carcinogenic to humans

ACGIH: Quartz (SiO₂) 14808-60-7
 A2: Suspected human carcinogen

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1	>70.00 %
Mineral binder	-	<30.00 %
Quartz (SiO ₂)	14808-60-7	<5.00 %

Note : Composition as shown represents the chemical composition of the product and is not representing the composition for inventory purposes. See Section 15 for inventory information.

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If symptoms persist, call a physician.

Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.

Ingestion : Drink at least 2 glasses of water. Obtain medical attention.

OxiKit Zeolite Sodium 13X

Never give anything by mouth to an unconscious person.

Notes to physician

Indication of immediate medical attention and special treatment needed, if necessary : This product is a desiccant and generates heat as it adsorbs water. The used product can contain material of a hazardous nature. Identify that material and treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Not combustible.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : The product itself does not burn.
The used product can retain material of a hazardous nature.
Identify that material and inform the fire fighters.
- Special protective equipment for firefighters : In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : For personal protection see section 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Sweep, shovel or vacuum spilled product into appropriate containers (do not use a vacuum if material has contacted a hydrocarbon material).
Pick up and arrange disposal without creating dust.
Never return spills in original containers for re-use.
Spilled product should be disposed of in accordance with all applicable government regulations.

OxiKit Zeolite Sodium 13X

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Handle and open container with care.
Avoid dust formation.
Avoid contact with skin and eyes.
Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks.
A copy of UOP's booklet, "Precautions & Safe Practices for Handling Zeolite Molecular Sieve Adsorbents in Process Units", can be obtained from your UOP representative at no cost.

Storage

Conditions for safe storage, including any incompatibilities : Store in original container.
Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Handle in accordance with good industrial hygiene and safety practice.

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Eye protection : Safety glasses
Safety goggles

Hand protection : Protective gloves

Skin and body protection : Work uniform and gloves to prevent prolonged contact.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

OxiKit Zeolite Sodium 13X

Breathing apparatus with filter: NIOSH classification N-100 or if oil/liquid aerosols are present P-100 (42 CFR 84).

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1	TWA : Time weighted average	1 mg/m ³	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Respirable fraction.			

Quartz (SiO ₂)	14808-60-7	TWA : Time weighted average	0.025 mg/m ³	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Respirable fraction.			

Quartz (SiO ₂)	14808-60-7	REL : Recommended exposure limit (REL):	0.05 mg/m ³	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Further information	:	Form of exposure : Respirable dust.			

Quartz (SiO ₂)	14808-60-7	TWA : Time weighted average	0.1 mg/m ³	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable dust.			

SAFETY DATA SHEET



OxiKit Zeolite Sodium 13X

Quartz (SiO ₂)	14808-60-7	TWA : Time weighted average	2.4 millions of particles per cubic foot of air The exposure limit is calculated from the equation, $250/(\%SiO_2+5)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable.			

Quartz (SiO ₂)	14808-60-7	TWA : Time weighted average	0.1 mg/m ³ The exposure limit is calculated from the equation, $10/(\%SiO_2+2)$, using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable.			

OxiKit Zeolite Sodium 13X

Quartz (SiO ₂)	14808-60-7	TWA : Time weighted average	0.3 mg/m ³ The exposure limit is calculated from the equation, 30/(%SiO ₂ +2), using a value of 100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits.	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure : Total dust.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Beads or pellets
Color	:	tan
Odor	:	none
pH	:	Note: Not applicable
Melting point/range	:	> 400 °C
Boiling point/boiling range	:	Note: Not applicable
Flash point	:	Note: Not applicable
Flammability	:	Not applicable

OxiKit Zeolite Sodium 13X

Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Vapor pressure	: Note: Not applicable
Vapor density	: Note: Not applicable
Density	: > 1.0 g/cm ³
Specific gravity	: > 1.0
Water solubility	: Note: insoluble
Solubility in other solvents	: Note: no data available
Partition coefficient: n-octanol/water	: Note: no data available
Ignition temperature	: Note: Not applicable
Viscosity, kinematic	: Note: Not applicable
Bulk density	: Note: not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable
Incompatible materials	: Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc. When first wetted, the product can heat up to the boiling point

OxiKit Zeolite Sodium 13X

of water. Flood with water to cool material.

Hazardous decomposition products : No decomposition if used as directed.
Hydrocarbons and other materials that contact the product during normal use can be retained on the product.
It is reasonable to expect that decomposition products will come from these retained materials of use.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 32,000 mg/kg
Species: Rat

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: Rabbit

Skin irritation : Species: Rabbit
Classification: Not classified as a skin irritant in animal testing.

Eye irritation : Species: Rabbit
Classification: Not classified as an eye irritant in animal testing.

Further information : Note: The toxicological data has been taken from products of similar composition.

OxiKit Zeolite Sodium 13X

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

Elimination information (persistence and degradability)

Bioaccumulation : Note: no data available

Mobility : Note: no data available

Biodegradability : Note: no data available

Further information on ecology

Additional ecological information : No information on ecology is available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity).
Materials of a hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the

OxiKit Zeolite Sodium 13X

retained material in order to assess the waste disposal options.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act : On the inventory, or in compliance with the inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control : On the inventory, or in compliance with the inventory

OxiKit Zeolite Sodium 13X

Act

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory


Note : Zeolites are considered Statutory Mixtures for Inventory

National regulatory information

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards : Chronic Health Hazard

California Prop. 65 :  **WARNING:** This product can expose you to chemicals, listed below, known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Quartz (SiO₂) 14808-60-7

Massachusetts RTK : Quartz (SiO₂) 14808-60-7

New Jersey RTK : Quartz (SiO₂) 14808-60-7

Pennsylvania RTK : Quartz (SiO₂) 14808-60-7

OxiKit Zeolite Sodium 13X

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1*	1
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.