RedArt Clay™ - Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 12/23/2025

SECTION 1: Identification

1.1. Identification

Product form	Mixture
Product name	Redart Clay
CAS-No.	Mixture
Product code	0278
Other means of identification	Alumina-Silicate Mineral

1.2. Recommended use and restrictions on use

Use of the substance/mixture	Refractory Mineral

1.3. Supplier

Cedar Heights Clay, LLC
3542 OH-93 Box 295, Oak Hill, OH 45656; United States
T: 740-682-7794; contact@cedarheightsclay.com, www.cedarheightsclay.com

1.4. Emergency telephone number

Emergency number	T: 740-682-7794;

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315 Causes skin irritation.
Serious eye damage/eye irritation Category 2B	H320 Causes eye irritation.
Carcinogenicity Category 1A	H350 May cause cancer by inhalation (respirable crystalline silica).
Specific Target Organ Toxicity – Repeated Exposure (STOT RE) – Category 1 (Inhalation)	H372: Causes damage to lungs through prolonged or repeated inhalation (respirable crystalline silica).
Full text of H statements	See section 16.

Carcinogenicity and STOT effects apply **only when respirable crystalline silica dust is generated and inhaled**. Under normal conditions of handling of the bulk material, exposure is not expected unless dust is generated.

2.2. GHS Label elements, including precautionary statements

GHS US labeling Hazard pictograms (GHS US)	
Hazard statements (GHS US)	H315 - Causes skin irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation) H372 – Causes damage to lungs through prolonged or repeated inhalation.
Precautionary statements (GHS US) Danger	P260 – Do not breathe dust. P280 - Wear eye protection, protective gloves. P308+P313 – IF exposed or concerned: Get medical advice/attention. P284 – Wear respiratory protection when airborne dust is generated. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

Material may form airborne dust during handling, transfer, or processing. Dust accumulation may increase inhalation risk.

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	GHS US classification
quartz	CAS-No.: 14808-60-7	20 – 50	Carc. 1A, H350, STOT RE 1, H372

Full text of hazard classes and H-statements: see section 16.

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact:	Gently wash with plenty of soap and water.
First-aid measures after eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects (acute and delayed)	
Potential Adverse human health effects and symptoms:	Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after inhalation:	Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact:	Causes skin irritation.
Symptoms/effects after eye contact:	Causes eye irritation.
4.3. Immediate medical attention and special treatment, if necessary	
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media: Unsuitable extinguishing media:	Use extinguishing media appropriate for surrounding fire. In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the chemical	
Fire hazard:	Not flammable.
5.3. Special protective equipment and precautions for fire-fighters	
Firefighting instructions: Protection during firefighting:	Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel Emergency procedures:	 Do not breathe dust. Avoid contact with skin and eyes.
For emergency responders Protective equipment: Emergency procedures:	 Equip cleanup crew with proper protection. Ventilate area. On land, sweep or shovel into suitable containers.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containment and cleaning up	
For containment: Methods for cleaning up:	Collect spillage. On land, sweep or shovel into suitable containers. Minimize generation of dust.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal protection.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Avoid raising dust. Avoid contact with skin and eyes. Do not breathe dust.
Hygiene measures:	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions:	Store in a dry place.
SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
Redart Clay (Mixture)	
No additional information available	

Quartz (Crystalline Silica, Respirable Fraction) – CAS 14808-60-7	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ (8-hour TWA, respirable fraction)
USA - OSHA - Occupational Exposure Limits	
Local name	Silica, crystalline quartz, respirable dust.
OSHA PEL (TWA) [1]	0.05 mg/m³ (8-hour TWA, respirable fraction)
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering controls	
Appropriate engineering controls	Use **local exhaust ventilation** or dust collection systems at points where dust is generated (e.g. bag dumping, pneumatic transfer). Minimize dust generation during loading/unloading and transfer. Where feasible, use enclosed conveying systems.
8.3. Individual protection measures/Personal protective equipment	
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses with side shields or chemical goggles when handling dusty material.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	When dust is generated and ventilation is insufficient: – NIOSH-approved N95 respirator (minimum) – P100 respirator recommended for higher dust levels Respiratory protection must be selected and used in accordance with OSHA 29 CFR 1910.134 and applicable respiratory protection program requirements. Follow NIOSH recommendations.
Other information:	Do not eat, drink, or smoke while handling material. Wash hands and exposed skin thoroughly after handling.
SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	
Physical state	Solid.
Appearance	Granular powder.
Color	Brown.
Odor	Earthy.
Odor threshold	No data available.
pH	No data available.
Melting point	> 2000 °F.
Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Relative evaporation rate (butyl acetate=1)	No data available.
Flammability (solid, gas)	Not flammable.
Vapor pressure	No data available.
Relative vapor density at 20°C	No data available.
Relative density	≈ 2.6
Solubility	Slightly soluble.
Partition coefficient n-octanol/water (Log Pow)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity, kinematic	Not applicable.
Viscosity, dynamic	No data available.
Explosion limits	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
9.2. Other information	
No additional information available.	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
None known.	
10.2. Chemical stability	
Stable under normal conditions.	

10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Avoid dust formation.	
10.5. Incompatible materials	
No additional information available.	
10.6. Hazardous decomposition products	
No additional information available.	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation Serious eye damage/eye irritation	Not classified. Not classified. Not classified. Causes skin irritation. Causes eye irritation.
quartz (14808-60-7)	
pH	6 – 7
Serious eye damage/irritation	Causes eye irritation.
quartz (14808-60-7)	
pH	6 – 7
Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	Not classified. Not classified. May cause cancer by inhalation of respirable crystalline silica.
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans (by inhalation).
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Causes damage to lungs through prolonged or repeated inhalation of respirable crystalline silica dust.
Aspiration hazard	Not classified.
Viscosity, kinematic	Not Applicable.
Likely routes of exposure	Inhalation of airborne dust, particularly respirable crystalline silica.
Potential Adverse human health effects and symptoms	Prolonged or repeated inhalation of respirable crystalline silica dust may cause lung damage and increase the risk of cancer.
Symptoms/effects after inhalation	Lung damage associated with prolonged or repeated inhalation of respirable crystalline silica dust.
Symptoms/effects after skin contact	Skin irritation.
Symptoms/effects after eye contact	Eye irritation.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Redart Clay (Mixture)	
Persistence and degradability	Not established.
quartz (14808-60-7)	
Persistence and degradability	Not applicable.
Biochemical oxygen demand (BOD)	Not applicable.
Chemical oxygen demand (COD)	Not applicable.
ThOD	Not applicable.
12.3. Bioaccumulative potential	
Redart Clay (Mixture)	

Bioaccumulative potential	Not established.
quartz (14808-60-7)	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on global warming	None known.
Other information	No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA
Department of Transportation (DOT): In accordance with DOT. Not regulated.
Transportation of Dangerous Goods: Not regulated.
Transport by sea: Not regulated.
Air transport: Not regulated.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations

CANADA: No additional information available.
EU-Regulations: No additional information available.
National regulations:

quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer).

15.3. US State regulations

Redart Clay (Mixture)

U.S. - California - Proposition 65 - Other information.	This product contains crystalline silica, a chemical known to the state of California to cause cancer. For more information go to WWW.P65Warnings.ca.gov.

quartz (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Component	**State or local regulations**
Quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Other information: Report language name: English. In the event of any conflict between English and other language versions, the English version shall prevail.

Full text of H-phrases

H315	Causes skin irritation.
H320	Causes eye irritation.
H350	May cause cancer.
H372	Causes damage to lungs through prolonged or repeated inhalation.

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Cedar Heights Clay, LLC makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof.