



SAFETY DATA SHEET

SDS: 2023

Section 1: Identification of the substance / mixture and of the company / undertaking

Product: **Stain Enhancer**

Section 2: Hazard Identification

This product is not classified as dangerous - no special precautions apply.

Physical hazards / Environmental Hazards: Not classified

Label elements: Non required

Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica (quartz cristobalite) may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled. This product should be handled with care to avoid dust generation.

Section 3: Composition / information on ingredients

Substance	Cas No	EC No	%
Zircon	14940-68-2	239-019-6	>96%
Rutile	1317-80-2	215-282-2	<0.6%
Quart	14808-60-7	238-878-4	0.5

This product contains less than 0.01% respirable quartz.

Additional Information This product as supplied contains less than 0.01% respirable crystalline silica (RCS). This material is a naturally occurring radioactive material (NORM) and is considered a radioactive product (IAEA radioactive material if above 1 Bq/g) however it is not considered a radioactive product for transportation purpose, limit of 10 Bq/g for NORM. Some countries may use different limits; therefore local regulations should be consulted for the latest requirements. Uranium 285 – 343 ppm 3.5 – 4.3 Bq/g Thorium 116 – 157 ppm 0.5 – 0.6 Bq/g Other daughter nuclides: In secular equilibrium The contact dose rate from bulk quantities is in the order of 1 to 2µSv/h above the background. A person may work in dust concentrations of 3 mg/m³ for a full year with out exceeding the maximum dose for a worker.

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Respirable dust levels in typical zircon processing operations are reported in IAEA Safety Report No 51, and are less than 25% of the maximum dose to workers of 1 mSv/y (ICRP). For downstream users of zircon, the thermal production of zirconia can generate risks associated with worker exposure to radioactive dust; and the chemical production of zirconia can generate risks associated with disposal of radionuclide containing wastes. It is recommended that regulatory guidance be obtained by the producers of zirconia, when using zircon.

Section 4: First Aid Measures

- Ingestion: Rinse mouth with water. Seek medical attention if deemed necessary.
- Inhalation: Move affected personnel to fresh air, keep warm and at rest.
- Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. If skin irritation or rash occurs, seek medical attention / advice.
- Eyes: Remove any contact lenses from the eyes. Irrigate eyeball thoroughly with water for at least 10 minutes. If discomfort persists, seek medical attention.

Section 5: Firefighting Measures

- Extinguishing Media: Use fire-extinguishing media suitable for the surrounding fire.
- Note for fire-fighters: Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately – do not discharge this waste into drains or water courses.

Section 6: Accidental Release Measures

- Personal precautions: Wear protective clothing as per any relevant risk assessment.
Provide adequate ventilation.
- Environmental precautions: Do not allow to enter soil / subsoil. Do not allow to enter surface water or drains.
- Methods and material for containment / cleaning up
Collect mechanically and transfer into appropriate container for disposal.

Section 7: Handling and Storage

Precautions for sale handling:	Do not eat, drink or smoke when using this product. Good personal hygiene / house-keeping procedures should be observed. Avoid the creation / spreading of dust / spray. Avoid release to the environment.
Storage precautions:	Store in a dry place – avoiding extremes of temperature.

Section 8: Exposure Controls / Personal Protection

Exposure controls:



Protective equipment:	Respirator / Safety Goggles / Gloves. Ensure adequate ventilation is available and observe any occupational exposure limits for the product – see guidance Note EH40 latest edition.
Eye Protection:	Eyewear complying with an approved standard should be worn if a risk assessment indicated eye contact is possible. Dust-resistant, chemical splash goggles are recommended.
Hand Protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn in a risk assessment indicates skin contact is possible.
Respiratory Protection:	Respiratory protection must be used if the airborne contamination exceeds the airborne contamination exceeds the recommended OEL. Particulate filter, type P2

Section 9: Physical and Chemical Properties

Appearance:	Solid / Granular Solid
Colour:	White / Beige
Odour:	Odourless

Section 10: Stability and Reactivity

Reactivity:	Stable under normal conditions and when used as recommended
Stability:	Stable under normal conditions and when used as recommended
Conditions to avoid:	No specific data available

Section 11: Toxicological Information

Toxicological effects:	No specific data available
Acute toxicity (Zircon ZrSiO ₄)	LD ₅₀ Oral Rat: >10k/kg

Section 12: Ecological Information

This product is not expected to be hazardous to the environment. Adopt good working practices to ensure the product is not released to the environment.

Section 13: Disposal Considerations

Recover any waste and dispose of in accordance with local and national regulations.
Avoid release to the environment.

Section 14: Transport Information

General:	This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). Transportation is not dangerous.
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Section 15: Regulatory Information

Safety, health and Environmental Regulations / Legislation specific for the product

No REACH Annex XV11 restrictions

Section 16: Other Information

Risk Phrases:	Not required
Hazard Statement:	Not required

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter.

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.