



Product Name	: Rust Eater	Chemical Name:	N.A.
Product Use	: Remove Rust on stones	Chemical Family:	N.A.
Product Family	: Rust Removal		
Formula	: Proprietary		
Produced By	: DL Shine S.p.A Via Cafiero,22-20158 Milano Tel: +39-02-376731 inquiry@dlshine.com		
Date Prepared	: April 2015		
Revised Date	: April 2022		

<u>Components</u>	<u>Cas No.</u>	<u>Percent</u>
Cristobalite	14464-46-1	7%
Quartz	14808-60-7	3%
Fuller Earth	N.A.	90%

Appearance:	Powder
Colour:	White
Odor:	Odorless
Solubility:	Slight
Specific Gravity:	2.30
pH:	No information found
%Volatiles by volume @21C(70F):	0
Boiling Point:	No information found
Melting Point:	No information found
Vapor Density (Air=1):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Evaporation Rate (BuAc=1):	No information found

Acute Eye:	May irritate eye
Acute Skin:	Nil
Acute Ingestion:	Ingestion of dust may irritate gastro-intestinal tract
Acute Inhalation:	Dust is non-toxic

Chemical Stability:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Moisture, Extreme heat and incompatibles

Hazardous Decomposition Products: No information found
Hazardous Polymerization: Will not occur.

SECTION 6: EMERGENCY FIRST AID PROCEDURES

Eye: Immediately flush with water for 15 minutes; lifting lower and upper eyelids occasionally. call physician if irritation persists.
Skin: Wash with soap and water; rinse thoroughly; call physician if symptoms persist.
Inhalation: Remove victim from area of exposure and take to fresh air; seek medical attention
Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice. Never give fluids by mouth to an unconscious person.

SECTION 7: FIRE FIGHTING MEASURES

Flash Point: None
Fire Hazard: Not considered to be a fire hazard.
Explosion Hazard: Not considered to be an explosion hazard
Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

SECTION 8: ACCIDENTAL RELEASE MEASURES

Wear proper protective equipment. Sweep up material using dustless sweeping compound such as vacuum and package the solid product in plastic drums, which are in good condition. Also can dispose by flushing with water. Thoroughly clean area where spill occurred. Do not dry sweep.

Waste Disposal

Dispose of in accordance with federal, state, and local rules. Be aware that state and local requirements may differ widely depending on location and may in many cases be different from federal rules. When intending to dispose of this material, the user is advised that this product would not be classified as a hazardous waste under U.S. Federal Regulations in effect at the time this MSDS was created.

SECTION 9: HANDLING AND STORAGE

Respiratory Protection: Use with adequate ventilation, avoid prolonged or repeated breathing of dust.
Avoid creating and breathing dust.
Protective Gloves: Neoprene rubber. Nitrate.
Protective Clothing and Equipment: Cover clothing to prevent staining.
Eye Protection: Safety glasses are recommended.
Other Protection: Safety shower and eye bath.
Avoid contact with skin.

Storage Requirements

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. When pouring into a container of flammable liquid, ground both containers electrically to prevent a static electric spark. Containers of this material may be hazardous when empty since they retain product residues (dust solids); observe all warning and precautions listed for the products.

Hygienic and Work Practices

Do not eat or drink while using this compound. Do not permit dust to collect on walls, floors, ledges, machinery, or equipment. Maintain fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment.

Wash or vacuum clothing which has become dusty. Smoking is prohibited where respirators are being used. Provide training for your employees about the OSHA precautions. See also American Society for Testing and Materials (ASTM) "Standard practice E 1132-86, Standard Practice for Health Requirements Relating to Occupational Exposure to Quartz Dust." *Only NIOSH approved or MSHA approved equipment should be used. (See 29 CFR 1910.134).

SECTION 10: EXPOSURE CONTROL AND PERSONAL PROTECTION

ACGIH THRESHOLD LIMIT VALUES:

For silica, crystalline, cristobalite (14464-46-1):

0.05 mg/m³ (TWA), respirable fraction.

ACGIH TLV: Classified as a nuisance dust when less than 1% crystalline silica, TLV-TWA=10mg/M³ (Total dust), 5 mg/M³ (Respirable) If greater than 1% crystalline silica, the TLV-TWA = 0.1 mg/M³ (respirable crystalline quartz) See Threshold Limit Value and Biological Exposure indices for 1991-1992, American Conference of Governmental Industrial Hygienists. Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration= 0.05 mg/M³ (respirable crystalline quartz) as determined by a full shift sample up to 10-hour working day, 40 hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

Note TLV=TWA in mg/m³

OSHA PEL: Classified as a nuisance dust when less than 1% crystalline silica is present, PEL=5.00mg/M³ (respirable) If greater than 1% crystalline silica, then exposures shall not exceed an 8 hour time-weighted average limit as stated in 29CFR 1910.1000 Table Z-1-A for air contaminants, specifically; Silica, Crystalline Quartz (respirable) 0.1 mg/M³

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

General Ventilation: Mechanical area wide ventilation is acceptable.

Personal Protective Equipment for Routine Handling

Eyes:	Use chemical safety goggles and/or full-face shield where dusting or splashing of solution is possible. Maintain eye wash fountain and quick-drench facilities in work area.
Skin:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Other Requirements:	Keep out of the reach of children and animals.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Data:

Silica, Amorphous -	DE: investigated as a tumorigen.
Silica, Crystalline -	Tripoli: investigated as a tumorigen.
Silica, Crystalline -	Tridymite: investigated as a tumorigen and mutagen
Silica, Crystalline -	Quartz: investigated as a tumorigen and mutagen
Silica, Crystalline -	Cristobalite: investigated as a tumorigen
Silica, Crystalline -	Fused: investigated as a tumorigen

Carcinogenicity:

For Silica, Crystalline:

- Cristobalite (14464-46-1), quartz (14808-60-7) and tridymite(15468-32-3) are listed by NTP as known to be a human carcinogen.
- NIOSH considers cristobalite, tridymite, quartz and tripoli (1317-95-9) to be potential occupational carcinogen.

.....\Cancer Lists\.....
 ...NTP Carcinogen...

Ingredient	known	Anticipated	IARC	Category
Flux-calcined		No	No	None
Cristobalite		Yes	No	1
Quartz		Yes	No	1

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate:

When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to biodegrade.

Environmental Toxicity:

No information found

SECTION 13: DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirement.

SECTION 14: TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name:	None
Hazard Technical Name:	None
Hazard Class:	None
UN/NA Number:	None
Packing Group:	None
HS Code:	340540

SECTION 15: REGULATORY INFORMATION

.....\Chemical Inventory Status – Part 1 \.....

Ingredient	TSCA	EC	Japan	Australia	Korea	DSL	NDSL	Phil.
.....			...	...	...	...	...	...

Kieselguhr, Flux-calcined	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Cristobalite	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Quartz	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

.....\Federal, State & International Regulations – Part 1 \.....

-SARA 302-SARA 313.....

Ingredient	RQ	TPQ	List	Chemical Catq.
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.....				
Kieselguhr, Flux-calcined	No	No	No	No
Cristobalite	No	No	No	No
Quartz	No	No	No	No

.....\Federal, State & International Regulations – Part 2 \.....

-RCRA- -TSCA-

Ingredient	CERCLA	261.33	8(d)
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Kieselguhr, Flux-calcined	No	No	No
Cristobalite	No	No	No
Quartz	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: No information found

Poison Schedule: No information found

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

Prepared by: DL Shine S.p.A

These data are offered in good faith as typical values and not as product specifications. We have reviewed all information contained in this data sheet, which we received from sources outside our company. We believed that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in the data sheet may not be adequate for all individuals and / or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be constructed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is either made express or implied.