

SAFETY DATA SHEET

ARC-RHA-AG-1

1. Identification

Material Name: ARC-RHA-AG-1
Synonyms: None
Product Use: Multiple Industrial Uses
Supplier: Agrilectric Research Company
P.O. Box 3716
Lake Charles, LA 70602
Phone: (337) 430-0006
Emergency: Emergency Telephone No. (337) 430-0006

2. Hazard Identification

DANGER!


May cause cancer by inhalation.

May cause damage to lungs through prolonged or repeated inhalation.

GHS Classification:

Health	Environmental	Physical
Carcinogen, Category 1A, H350 STOT RE (inhalation), Category 2, H373	None	None

GHS Label:

	
Symbols:	
Signal Word – DANGER Hazard Statements May cause cancer by inhalation. May cause damage to lungs through prolonged or repeated inhalation.	Precautionary Statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wear protective gloves/eye protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. If exposed or concerned get medical attention.

Other Hazards:

No additional information available

Unknown acute toxicity:

None of the ingredients are of unknown toxicity.

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3. Composition / Information on Ingredients

Name	Product identifier	%	Classification (GHS-US)
Quartz	(CAS No) 14808-60-7	< 1.2	Acute Tox. 4 (Oral), H302 Carc. 1A, H350
Silica, cristobalite	(CAS No) 14464-46-1	< 1	Carc. 1A, H350

See Section 8 for exposure limits

4. 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).

Inhalation: Remove person to fresh air and ensure comfortable breathing. Get medical attention if exposed or concerned or if you feel unwell.

Skin Contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical attention if pain, blinking or redness persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Note to physician: Treat symptomatically, see Section 11.

5. Fire Fighting Measures

Suitable Extinguishing media: Product will not burn. Water/foam, carbon dioxide, ABC fire extinguisher powder; water fog should be used to cool fire-exposed containers, structures and to protect personnel from the surrounding fire.

Unsuitable Extinguishing media: High pressure water jet.

Special exposure hazards: None known.

Combustion products: Product will not burn.

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection of firefighters: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Keep personnel removed and upwind of fire. Do not inhale combustion gases.

6. Accidental Release Measures

Personal precautions: Use suitable protective equipment to prevent contamination of skin, eyes and personal clothing. Evacuate unnecessary personnel. Ventilate area.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if material enters sewers or public waters.

Methods for cleanup: Do not generate dust. Shovel into an appropriate container and recycle or dispose in accordance with applicable regulations and product characteristics at time of disposal.

Reference to other sections: See Heading 8. Exposure controls and personal protection.

7. Handling and Storage

Handling: Do not generate dust. When using do not eat, drink or smoke. Avoid repeated or prolonged contact with skin and breathing dust. Provide good ventilation in process area. Wash hands and other exposed areas thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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Storage: Store locked up in the original container in a cool, well ventilated place. Keep container closed when not in use.

Incompatible products: Hydrofluoric acid and other oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits: ACGIH: Crystalline silica: 0.025 mg/m³ (respirable fraction). PNOS: 3 mg/m³ (total respirable), 10 mg/m³ (inhalable).

OSHA: Crystalline Quartz: 10 mg/m³/(%SiO₂ + 2) (respirable), 30 mg/m³/(%SiO₂ + 2) (total). For cristobalite use half the value calculated for quartz.

Nuisance Dust (PNOR): 5 mg/m³ (respirable), 15 mg/m³ (total).

Engineering controls: Avoid spills and use engineering controls to minimize dust and to control exposure to less than applicable limits. Post warning signs to alert personnel to potentially dusty areas.

Personal protection: Avoid all unnecessary exposure.

Eye: Chemical goggles or safety glasses should be worn.

Skin: Minimize skin contact. Wear protective gloves. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection.

Respiratory: Do not breathe dust. NIOSH approved respiratory protection should be worn if exposure limits are exceeded. A NIOSH approved respirator is generally acceptable for concentrations up to 10 times the PEL. Use a NIOSH approved air-supplied respirator for higher concentrations, unknown concentrations and for oxygen deficient atmospheres. Use only outdoors or in a well-ventilated area. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

Other information: Not normally required. Do not eat, drink or smoke during use. Safety shower and eye wash station should be located in the work area.

9. Physical and Chemical Properties

Appearance:	Coarse black powder
Odor:	Odorless
Odor threshold:	Not available
pH:	6.5-9
Melting point:	1700 C (3000 F)
Initial Boiling point/ range:	Not applicable
Flash Point:	Not flammable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not flammable
Upper/ lower flammability or explosive limits:	Not flammable
Oxidizing properties:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	1.8-2.2
Solubility in water:	Insoluble
Solubility in fats/ oils:	Insoluble
Partition Coefficient (n-octanol-water):	Not available
Autoignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable

10. Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Product is stable at ambient temperature and pressure.

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Hazardous Reactions:	Will not occur.
Conditions to Avoid:	Dust formation.
Incompatible Materials:	Hydrofluoric acid (HF) and other oxidizing agents.
Hazardous Decomposition Products	Not established.

11. Toxicological Information

Acute toxicity:	Not classified
LD50 oral rat (Quartz):	500 mg/kg
Skin corrosion / irritation:	Not classified
Serious eye damage / irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Respirable Quartz: ACGIH: A2, Suspected Human Carcinogen; NTP: Known human carcinogen; IARC: Group 1, Carcinogenic to humans. Respirable Silica, cristobalite: A2, Suspected Human Carcinogen; NTP: Known human carcinogen; IARC: Group 1, Carcinogenic to humans.
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	May cause damage to lungs in the form of pulmonary fibrosis, silicosis
Aspiration hazard:	Not classified
Other Information:	Most likely exposure routes are inhalation, skin and eye contact. Excessive inhalation of crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis. There is some evidence that breathing crystalline silica is associated with an increased incidence of significant diseases such as scleroderma and kidney disease.

12. Ecological Information

Toxicity:	No additional information available
Persistence and degradability:	No additional information available
Bioaccumulative potential:	No additional information available
Mobility in soil:	No additional information available
Other adverse effects:	No additional information available

13. Disposal Considerations

Disposal methods: Dispose of contents/ container in accordance with local, state and federal regulations.
Ecology – waste materials: Avoid release to the environment.

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14. Transport Information

Not regulated for transportation.
Environmental Hazards: Not a marine pollutant.

15. Regulatory Information

No components are subject to Montreal Protocol, Stockholm Convention, or Rotterdam Convention.

Region specific regulations

SARA Title III:

Section 302/304. Extremely Hazardous Substances - None.

Section 311/312. (40CFR370) Hazardous Categories: Delayed (chronic) health hazard

Section 313: Contains the following SARA 313 Toxic Release Chemicals: None

The following product components are cited on the lists below:

Chemical Name	CAS Number	List Citations
Quartz	14808-60-7	NJ
Silica, cristobalite	14464-46-1	NJ

TSCA (Toxic Substance Control Act): Listed.

CA65: Respirable crystalline silica is known to the State of California to cause cancer.

Canada WHMIS Classification: D2A. This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

European Union Labeling: No additional information available

16. Other Information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H302	Harmful if swallowed
H350	May cause cancer by inhalation
H373	May cause damage to lungs through prolonged or repeated inhalation.

Disclaimer: 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 and is based on data provided by our supplier. The information is given only as 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.

Revision History:

Date Prepared: 21 July 2015

Supersedes: New SDS

MSDS ID: ARC-RHA-AG-1