QUARTZ GLASS

Alpha Resources LLC

Safety Data Sheet

Issue Date: 05/21/2021

SECTION 1 Identification

Product Identifier

Product Name	QUARTZ GLASS
Chemical Name	Silica fused
Part Numbers	AEB1008, AEC1023, AEC2015, AEC2016, AR004, AR056, AR057, AR064, AR093, AR094, AR117, AR118, AR120, AR122, AR180, AR278, AR279, AR286, AR342, AR355, AR379, AR437, AR438, AR441, AR603, AR604, AR606, AR683, AR710, AR900, AR910, AR922, AR923, AR01007, AR02510, AR11504, AR1172/4, AR1201, AR1202, AR1335, AR140018, AR14130, AR20040, AR2038, AR21120, AR2253/4, AR2402Q, AR2428, AR4241, AR4541, AR4962, AR5104, AR5125, AR5875, AR6108, AR6146, AR8891, AR8892, AR9065, AR9116, AR9154, AR9412, AR11364, SP1004,
Chemical Formula	O2-Si
CAS Number	60676-86-0

Company Information

Registered Company Name	Alpha Resources LLC
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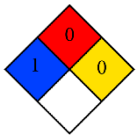
Emergency Phone Number

Association / Organization	CHEMTREC
Emergency Telephone No.	(800) 424-9300

SECTION 2 Hazard(s) Identification

Classification of the Substance or Mixture

NFPA 704 Diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDS are NOT to be used to fill in the NFPA 704 diamond. Blue = Health, Red = Fire, Yellow = Reactivity, White = Special (Oxidizer or water reactive substances)

Classification	Eye irritation Category2B

Label Elements

Hazard Pictogram(s)	N/A
Signal Word	**Warning**

Hazard Statement(s)

H320	Causes eye irritation

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Hazard(s) not Otherwise Classified

Not applicable

Precautionary Statement(s) Prevention

P264	Wash all exposed body areas thoroughly after handling.

Precautionary Statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary Statement(s) Storage

Not applicable

Precautionary Statement(s) Disposal

Not applicable

SECTION 3 Composition / Information on Ingredients

Substances

CAS No	%[weight]	Name
60676-86-0	>=98	Silica amorphous fused

SECTION 4 First-Aid Measures

Description of First Aid Measures

Eye Contact	If this product comes in contact with the eyes: ➢ Wash out immediately with fresh running water. ➢ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ➢ Seek medical attention without delay; if pain persists or recurs seek medical attention.
Skin Contact	➢ Flush skin with running water (and soap if available). ➢ Seek medical attention in event of irritation.
Inhalation	➢ If fumes or combustion products are inhaled remove from contaminated area. ➢ Lay patient down. Keep warm and rested.
Ingestion	➢ Immediately give a glass of water. ➢ First aid is not generally required. If in doubt, contact a Poison Information Center or a doctor.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-Fighting Measures

Extinguishing Media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

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Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting	➢ Alert fire department and tell them location and nature of hazard. ➢ Wear breathing apparatus plus protective gloves in the event of a fire. ➢ Prevent, by any means available, spillage from entering drains or water courses. ➢ Cool fire exposed containers with water spray from a protected location.

Fire / Explosion Hazard	➢ Noncombustible.
	➢ Not considered a significant fire risk, however containers may burn.
	➢ Decomposition may produce toxic fumes of:
	  ➢ metal oxides
	  ➢ May emit poisonous fumes.
	  ➢ May emit corrosive fumes.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	➢ Clean up spills immediately. ➢ Avoid contact with skin and eyes. ➢ Use protective equipment such as gloves and eye protection. ➢ Use dry cleanup procedures and avoid generating dust. ➢ Place in a suitable, labeled container for waste disposal.
Major Spills	➢ Control personal contact by wearing protective clothing. ➢ Vacuum cleaning or wet methods should be used to minimize airborne silica dust. ➢ IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal. ➢ ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and Storage

Precautions for safe handling

Safe Handling	➢ Avoid all personal contact, including inhalation. ➢ Wear protective clothing when risk of exposure occurs. ➢ When handling, DO NOT eat, drink or smoke. ➢ Always wash hands with soap and water after handling. ➢ Handle with caution, product is fragile.

Conditions for safe storage, including any incompatibilities

Suitable Container	❖ Product is fragile, store in safe environment to avoid breakage.
Storage Incompatibility	❖ Silicas: ❖ react with hydrofluoric acid to produce silicon tetrafluoride gas.

	❖ react with xenon hexafluoride to produce explosive xenon trioxide. ❖ reacts exothermically with oxygen difluoride, and explosively with chlorine trifluoride (these halogenated materials are not commonplace industrial materials) and other fluorine-containing compounds. ❖ may react with fluorine, chlorates. ❖ are incompatible with strong oxidizers, manganese trioxide, chlorine trioxide, strong alkalis, metal oxides, concentrated orthophosphoric acid, vinyl acetate. ❖ may react vigorously when heated with alkali carbonates.

SECTION 8 Exposure Controls / Personal Protection

Control parameters

- **Occupational Exposure Limits (OEL)**
- **INGREDIENT DATA**

  Not Available
- **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
Silica amorphous fused	Not available	Not available	Not available

Ingredient	Original IDLH	Revised IDLH
Silica amorphous fused	Not Available	Not Available

Exposure Controls

Engineering Controls	➢ Not applicable.
Eye and Face Protection	➢ Safety glasses with side shields. ➢ Eye wash unit.
Skin and Body Protection	No special equipment needed when handling small quantities. ➢ Protective clothing ➢ Barrier cream.
Hand Protection	➢ Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. ➢ Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. ➢ Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present: polychloroprene, nitrile rubber, butyl rubber, fluor caoutchouc, and polyvinyl chloride. ➢ Gloves should be examined for wear and/or degradation constantly.
Respiratory Protection	➢ Particulate – P1 (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Solid, transparent, clear.
Physical State	Divided solid
Odor	Odorless
Melting Point / Freezing Point (°C)	1610
Initial Boiling Point (°C)	2230
Molecular Weight (g/mole)	60.08

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Vapor Pressure (kPa)	1.33 at 1732°C
Solubility in Water	Immiscible
Relative Density (Water = 1)	2.6 approx.

SECTION 10 Stability and Reactivity

Reactivity	See section 7
Chemical Stability	➢ Unstable in the presence of incompatible materials. ➢ Product is considered stable. ➢ Hazardous polymerization will not occur.
Possibility of Hazardous Reactions	See section 7
Conditions to Avoid	See section 7
Incompatible Materials	See section 7
Hazardous Decomposition Products	➢ See section 5

SECTION 11 Toxicological Information

Information on toxicological effects

Inhaled	Inhalation of dusts, generated by the material during grinding or other processing, may be damaging to the health of the individual. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material does not produce adverse health effects or skin irritation following contact.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	Long term exposure to high dust concentrations may cause changes in lung function i.e., pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.

Silica amorphous fused	Toxicity – Not available; Irritation – Not available

Acute Toxicity	X	Carcinogenicity	X
Skin Irritation/Corrosion	X	Reproductivity	X
Serious Eye Damage/Irritation	√	STOT – Single Exposure	X
Respiratory or Skin Sensitization	X	STOT – Repeated Exposure	X
Mutagenicity	X	Aspiration Hazard	X

Legend: X *– Data either not available or does not fill the criteria for classification*
√ *- Data available to make classification.*

SECTION 12 Ecological Information

Toxicity

Not available

DO NOT discharge into sewer or waterways

Persistence and Degradability – No data available

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Bio accumulative Potential – No data available

Mobility in Soil – No data available

SECTION 13 Disposal Considerations

Waste Treatment Methods

Product / Packaging Disposal	➢ Recycle wherever possible. ➢ Waste disposal should be done in compliance with existing federal, state and local environmental regulations.

SECTION 14 Transport Information

Labels Required

Marine Pollutant	NO

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product Name	Group
Silica amorphous fused	Not Available

Transport in bulk in accordance with the ICG Code

Product Name	Ship Type
Silica amorphous fused	Not Available

SECTION 15 Regulatory Information

Safety, Health, and Environmental Regulations / Legislation Specific for the Substance or Mixture

❖ **Graphite is found on the following regulatory lists**

US Toxic Substances Control Act (TSCA) – Chemical Substance Inventory
US TSCA Chemical Substance Inventory – Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

❖ **Section 311/312 hazard categories**

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid, or Gas)	No
Organic Peroxide	No

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Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	No
Respiratory or Skin Sensitization	No
Serious eye damage or eye irritation	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

- **US EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**
  None Reported

State Regulations

- **US California Proposition 65**
  None Reported

National Inventory Status

National Inventory	Status
Australia – AIIC / Australia Non-Industrial Use	Yes
Canada – DSL	Yes
Canada – NDSL	No (silica fused)
China – IECSC	Yes
Europe – EINEC / ELINCS / NLP	Yes
Japan – ENCS	No (silica fused)
Korea – KECI	Yes
New Zealand – NZIoC	Yes
Philippines – PICCS	Yes
USA – TSCA	Yes
Taiwan – TCSI	Yes
Mexico – INSQ	Yes
Vietnam – NCI	Yes
Russia – FBEPH	Yes
Legend:	*Yes = All CAS declared ingredients are on the inventory* *No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)*

SECTION 16 Other Information

Revision Date	05/21/2021
Initial Date	03/24/2015

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The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources LLC cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.