

## SAFETY DATA SHEET

1. Identification Product identifier Recommended use Recommended restrictions

Epic® C For Industrial Use Only Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

#### Manufacturer/Supplier information

Company name: FRC Global	
Address: 1000 N. West St.	
Suite 1200 #3008	
Wilmington, DE 1980	D1
Product Support/Technical Services	
Phone: (514) 931-571	1
Website www.FRCglobal.com	n

Emergency telephone number: Corporate Office: (514) 931-5711 Technical Services: (514) 931-5711 Contact E-Mail: <u>LadleDr@FRCglobal.com</u>

## 2. Hazard(s) identification

Physical hazards Heath hazards Environmental hazards OSHA-defined hazards Label Elements Not classified. Carcinogenicity. Not classified. Not classified.

Category 1A

Signal Word	Danger.
Hazard Statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, and eye protection.
Response	If concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations

Hazard(s) not otherwise Classified (HNOC)

	None Known.
Supplemental information	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

## 3. Composition/information on ingredients

Common Name/Synonyms	CAS Number	%
	1344-28-1	*
	1309-48-4	*
	1305-78-8	*
Quartz	14808-60-7	*
		1344-28-1 1309-48-4 1305-78-8

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub your eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effe	cts, acute and delayed
	Dust may irritate the respiratory tract, skin, and eyes. Coughing.
Indication of immediate medica	I attention and special treatment needed
	Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.
General information	If concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. Fire-fighting measures	5

## Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials. Unsuitable extinguishing media Not available. Specific hazards arising from the chemical Not available. Special protective equipment and precautions for firefighters Not available.

#### Special Remarks on Fire Hazards

Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame.

#### 6. Accidental release measures

#### Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

#### Methods and materials for containment and cleaning up

	Stop the flow of material if this is without risk. Collect dust using a vacuum cleaner equipped with a HEPA filter.
	Large Spills: Wet down with water and dike for later
	disposal. Shovel the material into a waste container. Avoid
	the generation of dust during clean-up. Following product recovery, flush the area with water.
	Small Spills: Sweep up or vacuum up spillage and collect it in a suitable container for disposal. For waste disposal, see Section 13 of the SDS.
Fundamental and solutions	
Environmental precautions	Avoid discharge into drains, water courses, or onto the ground.

#### 7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until
	all safety precautions have been read and understood.
	Minimize dust generation and accumulation. Provide
	appropriate exhaust ventilation at places where dust is
	formed. Do not breathe dust. Do not breathe dust. Avoid
	prolonged exposure. It should be handled in closed
	systems, if possible. Wear appropriate personal protective
	equipment. Observe good industrial hygiene practices.
Conditions for safe storage, inc	cluding any incompatibilities

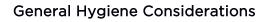
Store locked up. Store in the original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection Occupational exposure limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Type Value Form		•		*	
	Lomponents	Type	Value		

Aluminum Oxide (Non-Fibrous (CAS 1344-28-1)	) PEL	5 mg/m <sup>3</sup>	Respirable fraction.
Iron Oxide (CAS 1309-37-1)	TWA	10 mg/m <sup>3</sup>	Respirable fraction.
Silicon Dioxide (CAS 14808-60-7)	PEL	6 mg/m <sup>3</sup>	
Magnesium Oxide (CAS 1309-48-4)	TWA	15 mg/m <sup>3</sup>	Total Particulate.
Chrome Oxide (CAS 1308-31-2)	TWA	1 mg/m <sup>3</sup>	
-	No biological exp ingredient(s).	osure limits were	noted for the
	(less than 100ppn formaldehyde. Ur decomposition pr	ve low toxicity, wi n in this refractory oder certain condi oducts may still in n dioxide, formald	th minimal free-phenol y product) and no free- tions, thermal nclude carbon ehyde, phenol, and
Appropriate engineering contro			
		tilation (typically	10 air changes per
Individual protection measures, Eye/face protection	to conditions. If a exhaust ventilation maintain airborne limits. If exposure maintain airborne facilities and an e when handling th such as personal Wear safety glass	pplicable, use pro on, or other engine levels below reco limits have not be levels to an acce mergency shower is product. <b>protective equip</b> ses with side shield or with organic va	ommended exposure een established, ptable level. Eye wash must be available
•	Waar appropriate	chamical-resista	at aloves
-	Wear appropriate Use of an impervi		-
Respiratory protection	Use a NIOSH/MSH	HA-approved resp	pirator if there is a risk c ceeding the exposure
Thermal hazards	Wear appropriate necessary.	e thermal protectiv	ve clothing, when



Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance Physical state Solid. Form Solid. Color Not available. Odor Not available. Odor threshold Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling range Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. **Relative density** Not available. Solubility(ies) Solubility (water) Not available. Partition coefficient (n-octanol/water) Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Not available. 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal	
	conditions of use, storage, and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous react	ions	
	No dangerous reaction is known under conditions of	
	normal use.	
Conditions to avoid	Contact with incompatible materials. Refractories containing crystalline silica may, after service, contain	

Incompatible materials	more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. Phosphorus. Chlorine. Powerful Oxidizers. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.	
Hazardous decomposition pro	No hazardous decomposition products are known.	
11. Toxicological information		
Information on likely routes of	•	
Inhalation	Dust may irritate the respiratory system. Prolonged	
	inhalation may be harmful.	
Skin contact	Dust or powder may irritate the skin.	
Eye contact	Dust may irritate the eyes.	
Ingestion	Expected to be a low ingestion hazard. ical, chemical, and toxicological characteristics:	
Symptoms related to the physi	Dust may irritate the respiratory tract, skin, and eyes.	
	Coughing.	
Information on toxicological ef		
Acute toxicity	Not available.	
	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye		
	Direct contact with the eyes may cause temporary irritation.	
Respiratory or skin sens		
Respiratory sensit		
	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data is available to indicate product, or any components present at greater than 0.1% are mutagenic or	
	genotoxic.	
Carcinogenicity	In 1997, IARC (the International Agency for Research on	
0 9	Cancer) concluded that crystalline silica inhaled from	
	occupational sources can cause lung cancer in humans.	
	However, in making the overall evaluation, IARC noted that	
	"carcinogenicity was not detected in all industrial	
	circumstances studied. Carcinogenicity may be dependent	
	on inherent characteristics of the crystalline silica or external factors affecting its biological activity or	
	distribution of its polymorphs." Occupational exposure to	
	respirable dust and respirable crystalline silica should be	
IARC Monographs Over	monitored and controlled. all Evaluation of Carcinogenicity	
Quartz (SiO <sub>2</sub> ) (CAS		
US National Toxicology Program (NTP) Report on Carcinogens		
Quartz (SiO <sub>2</sub> ) (CAS		

US OSHA Specifically Re	egulated Substances (29 CFR 1910.1001-1050)
	Not listed.
Reproductive toxicity	This product is not expected to cause reproductive or
	developmental effects.
Developmental effects	
Quartz (SiO <sub>2</sub> )	0
Developmental effects -	EU category
Quartz (SiO <sub>2</sub> )	0
Embryotoxicity	
Quartz (SiO <sub>2</sub> )	0
Reproductively	
Quartz (SiO <sub>2</sub> )	0
Specific target organ toxicity -	single exposure
	Not classified.
Specific target organ toxicity -	repeated exposure
	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure
	may cause chronic effects.
12. Ecological informatic	n
Ecotoxicity	The product is not classified as environmentally hazardous.
	However, this does not exclude the possibility that large or
	frequent spills can have a harmful or damaging effect on
	the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bio-accumulative potential	No data available.

No data available.
No other adverse environmental effects (e.g. ozone
depletion, photochemical ozone creation potential,
endocrine disruption, global warming potential) are
expected from this component.

## 13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA		
	criteria for hazardous waste.		
Hazardous waste code	Not applicable.		
Waste from residues / unused products			
	Not available.		

Contaminated packaging Not available.

# 14. Transport information

Not regulated as	dangerous goods.
Not regulated as	dangerous goods.

ΙΑΤΑ

IMDGNot regulated as dangerous goods.Transport in bulk according toAnnex II of MARPOL 73/78 and the IBC Code<br/>Not applicable.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

## 16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by:	FRC Global
Date:	October 2020

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#### End of Safety Data Sheet