

# SAFETY DATA SHEET

1. Identification Product identifier Recommended use Recommended restrictions

Epic 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

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	Suite 1200 #3008
	Wilmington, DE 19801
Product Support/	Technical Services
	Phone: (514) 931-5711
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# 2. Hazard(s) identification

Classified hazards	This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements.
	Wear protective gloves/protective clothing/eye
	protection. Dust may cause cancer.
Label elements This item is defi	ned as an article per OSHA (29 CFR 1910.1200) and is
	therefore exempt from labeling. A Safety Data Sheet is available.
	This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements.

Wear protective gloves/protective clothing/eye protection. Dust may cause cancer.

## Hazard(s) not otherwise classified (HNOC)

This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available.

This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance

# 3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Aluminum Oxide (Non-Fibrous)		1344-28-1	*
Mullite		1302-93-8	*
Cristobalite		14464-46-1	*
Silicon Dioxide		7631-86-9	*
Quartz (SiO2)		14808-60-7	*
Titanium Dioxide		13463-67-7	*

\*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	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
	Direct contact with the eyes may cause temporary irritation.
Indication of immediate medica	I attention and special treatment needed
General information	Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed. 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

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.

## 6. Accidental release measures

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

ground.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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. Following
	product recovery, flush the area with water. For waste
	disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses, or onto the

# 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. Keep the formation of airborne dust to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

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

# 8. Exposure controls/personal protection

Occupational exposure limit

Components	Туре	Value	Form
Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction
Titanium Dioxide	PEL	15mg/m3	Total Dust
(CAS 13463-67-7)			

#### US OSHA Table Z-3 (29 CFR 1910.1000)

Components Type Value Form	
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Cristobalite (CAS 14464-46-1)	TWA	0.15 mg/m3 0.05 mg/m3	Total dust. Respirable
		1.2 mppcf	Respirable
Quartz (SiO2) (CAS 14808-60-7)	TWA	.03 mg/m3	Total dust
Silicon Dioxide (CAS 7631-86-9)	TWA	0.8 mg/m3 20 mppcf	

#### US ACGIH Threshold Limit Values

Components	Type	Value	Form
Aluminum Oxide (Non-Fibrous)	TWA	1 mg/m3	Respirable fraction
(CAS 1344-28-1)			
Cristobalite	TWA	0.025 mg/m3	Respirable fraction
(CAS14464-46-1)			
Mullite	TWA	1 mg/m3	Respirable fraction
(CAS 1302-93-8)			
Quartz	TWA	1mg/m3	Respirable fraction
(14808-60-7)			
Titanium Dioxide	TWA	10mg/m3	Respirable fraction
(CAS 13463-67-7)			

#### US NIOSH: Pocket Guide to Chemical Hazards

Туре	Value	Form
TWA	3 fibers/cm3	Fiber.
	3 fibers/cm3	Dust.
	5 mg/m3	Fiber, total
	5 mg/m3	Fibers, total dust
TWA	.05mg/m3	Respirable dust.
TWA	6 mg/m3	
	-	
	TWA	TWA 3 fibers/cm3 3 fibers/cm3 5 mg/m3 5 mg/m3 TWA .05mg/m3

**Biological limit values** No biological exposure limits were noted for the

Exposure guidelinesingredient(s).Exposure guidelinesOccupational exposure to nuisance dust (total and<br/>respirable) and respirable crystalline silica should be<br/>monitored and controlled.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

# Individual protection measures, such as personal protective equipmentEye/face protectionIf contact is likely, wear safety glasses with side shields (or<br/>goggles).

Skin protection<br/>Hand protection<br/>OtherWear appropriate chemical-resistant gloves.<br/>Wear suitable protective clothing. Use of an impervious<br/>apron is recommended.Respiratory protectionUse a NIOSH/MSHA-approved respirator if there is a risk of<br/>exposure to dust/fume at levels exceeding the exposure<br/>limits.Thermal hazardsWear appropriate thermal protective clothing, when<br/>necessary.



#### **General Hygiene Considerations**

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. Solid. Form Color Not available. Odor Not available. Odor threshold Not available. рΗ 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)

MATERIAL NAME: EPIC DATE: OCTOBER 2020

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		
10. Stability and reactivit	• <b>y</b> The product is stable and non-reactive under normal	
Reactivity	conditions of use, storage, and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reaction	ns	
	No dangerous reaction is known under conditions of	
	normal use.	
Conditions to avoid Incompatible materials	Contact with incompatible materials. Fluorine. Chlorine.	
incompatible materials	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 proc		
	No hazardous decomposition products are known.	
11. Toxicological informa	tion	
Information on likely routes of		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physi	cal, chemical, and toxicological characteristics:	
	Direct contact with the eyes may cause temporary irritation.	
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 sensi		
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	
Carcinogenicity	genotoxic. In 1997, IARC (the International Agency for Research on	
	Cancer) concluded that crystalline silica inhaled from	
	occupational sources can cause lung cancer in humans.	
MATERIAL NAME: EDIC		

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 on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

	Cristobalite (CAS 14464-	46-1)	1 Carcinogenic to humans.
	Silicon Dioxide (CAS 763	1-86-9)	3 Not classifiable as to carcinogenicity to humans.
	Quartz (SiO2) (CAS 1480	8-60-7)	1 Carcinogenic to humans.
	Titanium Dioxide (CAS 13	463-67-7)	2B Possibly carcinogenic to humans.
US Na	tional Toxicology Progra	m (NTP) Rep	oort on Carcinogens
	Cristobalite (CAS 14464-	· · ·	Known To Be Human Carcinogen.
			Reasonably Anticipated to be a Human Carcinogen.
	Quartz (SiO2) (CAS 1480	8-60-7)	Known To Be Human Carcinogen.
US OS	SHA Specifically Regulate	ed Substance	s (29 CFR 1910.1001-1050)
		Not listed.	
Repro	ductive toxicity	This product developmen	t is not expected to cause reproductive or Ital effects.
Speci	fic target organ toxicity -	single expos	sure
		Not classifie	d.
Speci	fic target organ toxicity -	repeated ex	posure
		Not classifie	d.
-	ation hazard		ation hazard.
Chror	ic effects	-	halation may be harmful. Prolonged exposure
		may cause c	hronic effects.

# 12. Ecological information

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.
No data is available on the degradability of this product.
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

DOT	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
INDC	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to	Annex II of MARPOL 73/78 and the IBC Code
	Not applicable.

# 15. Regulatory information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All chemical substances in this product are listed on the TSCA chemical substance inventory where required.
TSCA Section 12(b) Expo	ort Notification (40 CFR 707, Subpt. D)
	Not regulated.
CERCLA Hazardous Sub	stance List (40 CFR 302.4)
	Not listed.
SARA 304 Emergency re	elease notification
	Not regulated.
US OSHA Specifically Re	gulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous Chemical

Not listed.

#### SARA 313 (TRI reporting)

Chemical Name	CAS number	% by wt.
Aluminum Oxide (Non-Fibrous)	1344-28-1	*

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not Regulated Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

#### US state regulations

US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US Massachusetts RTK - Substance List

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1) Cristobalite (CAS 14464-46-1)

Quartz (SiO2) (CAS 14808-60-7)

Silicon Dioxide (CAS 7631-86-9)

Titanium Dioxide (CAS 13463-67-7)

## US New Jersey Worker and Community Right-to-Know Act

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1) Cristobalite (CAS 14464-46-1) Quartz (SiO2) (CAS 14808-60-7) Silicon Dioxide (CAS 7631-86-9) Titanium Dioxide (CAS 13463-67-7)

US Pennsylvania Worker and Community Right-to-Know Law

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

- Cristobalite (CAS 14464-46-1)
- Quartz (SiO2) (CAS 14808-60-7)
- Silicon Dioxide (CAS 7631-86-9)

Titanium Dioxide (CAS 13463-67-7)

## US Rhode Island RTK Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

## US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to

contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Quartz (SiO2) (CAS 14808-60-7) Titanium Dioxide (CAS 13463-67-7) Listed: October 1, 1988 Listed: September 2, 2011

# 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