

acc. to OSHA HCS (29 CFR 1910.1200)

Trade Name: Green Silicon Carbide Ready-To-Press

1	IDENTIFICAT	ION				
	Product Ident	ifier:	Green Silicon Carbide Ready-To-Press			
	Synonyms:		Green SiC RTP			
	CAS No. / EC N	No.:	409-21-2 / 206-991-8			
	Recommende	d Use:	Product is intended for use in ceramic materials such as armor, seals, and wear-resistant parts.			as armor,
	Use(s) Advised	d Against:	Contact manufacturer i use cases.	if using product o	utside of reco	ommended
	Manufacturer	/Supplier:	GNPGraystar	GNPGra	ystar	
			37 John Glenn Dr.	9 Simmo	onsville Road	
			Amherst, NY 14228	Bluffton	, SC 29910	
			Ph: 716-759-6600	Ph: 843-	815-5600	
	Emergency Telephone No.: CHEMTREC (US): 1-800-424-9300					
	All other regions contact your local poison control center or local chemical authority.				al authority.	
2	HAZARD(S) IDENTIFICATION					
	Classification	of the substance of	or mixture:			
	Classification has been determined in accordance with United States OSHA HCS (29 CFR 1910.1200) requirements and any corresponding Globally Harmonized System (GHS) classification parameters.					
	Additional Information:					
	LABEL ELEME	ENTS				
	GHS Label Ele	ments				
		Carcinogenicity		Category 1A		

Pictograms:



Danger	
See Sectio	on 3 for more information.
H350	May cause cancer via inhalation.
P102	Keep out of reach of children.
P203	Obtain, read and follow all safety instructions before use.
P280	Wear face protection when inhalation of dust is possible.
P318	If exposed or concerned, get medical advice.
P405	Store locked up.
P501	Dispose of contents in accordance with all local/regional/ national/international regulations. Do not burn or pulverize for disposal.
	See Sectio H350 P102 P203 P280 P318 P405



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HMIS Ratings (scale 0-4):	NFPA Ratings (scal	le 0-4):	Legend	4 - Extreme
Health:	*0	Health:	0		3 - Serious
Fire:	0	Fire:	0		2 - Moderate
Reactivity:	0	Reactivity:	0		1 - Slight
PPE:	t	Specific Hazard:	N/A		0 - Minimal

* Indicates a long-term health hazard from repeated or prolonged exposures **Long-Term Health Hazard:** Quartz (SiO₂), CAS# 14808-60-7

Additional Information: Product form is powder. Silicon carbide whiskers and powder are both listed under the CAS number 409-21-2; silicon carbide *whiskers* are considered to be a Group 2A carcinogen by IARC, whereas silicon carbide *powders* are not. Similarly, ACGIH parameters distinguish between fibrous silicon carbide (including whiskers) and nonfibrous silicon carbide, with different TLV-TWA values for respective inhalable and respirable particulate levels. All information contained within this SDS is based on the product's powder state.

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:		Mixture				
Physical form	:	Powder				
Ide	entifier	Chemical Name/Description		GHS Hazard(s)	Wt. %	
CAS No.:	409-21-2	Silicon carbido S	ic	Not classified as	> 90	
EC No.:	206-991-8	Silicon carbide, SiC		hazardous.	× 90	
CAS No.:	N/A	Resin Binder		Not classified as	> 10	
EC No.:	N/A	Resin Binder		hazardous.	> 10	
CAS No.:	14808-60-7	Silicon dioxide, crystalline silica (quartz form), SiO ₂		Carcinogenicity, Cat.	< 1	
EC No.:	238-878-4			1A		

Specific identities or concentrations of nonhazardous ingredients may be withheld as proprietary information and/or due to batch-to-batch variation. All hazardous components at reportable concentrations have been included in this section. Traces of other mineral components may be present as contaminants. Trace mineral contaminants may be hazardous on their own but present in concentrations below reporting and hazard classification levels. Classified hazard categories for this product are based on repeated and/or long-term exposures to respirable dusts of the product.

4	FIRST AID MEASURES			
	General Information:	No special measures required.		
	After inhalation:	Supply fresh air; get medical advice if symptoms occur. Provide oxygen treatment if affected person has difficulty breathing.		
	After contact with eyes:	Not considered to be an eye irritant. Irrigate with large quantities of water for at least 10 minutes. Remove contact lenses if present and easy to do so. Seek medical help if persistent irritation or tissue damage occur.		
	After skin contact:	Wash with plenty of soap and water. Skin irritation or sensitization is not anticipated to be a common symptom of exposure. If skin symptoms occur and persist, get medical help.		



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After swallowing:	Rinse mouth with water and seek medical advice. Material is not intended for ingestion: preparation and consumption of food or drink should not be allowed in work areas.		
Key symptoms and effects, both acute and delayed:	Coughing or other difficulty breathing may occur after severe or prolonged inhalation of product dusts. Pain, difficulty breathing other symptoms may be felt after long-term exposures. Product dusts may cause cancer via long-term inhalation exposure.		
Indication(s) of need for immediate medical help:	Seek immediate medical help if any of the above key symptoms occur. Cancer may lead to fatigue/exhaustion or unintentional changes in body weight: seek immediate medical advice if these symptoms occur.		
5 FIREFIGHTING MEASURES			
Flash point: N/A	UEL: N/A LEL: N/A		
Auto ignition temperature:	Not applicable to this product.		
Flammability:	Not flammable or combustible. Product will not burn.		
Extinguishing media:	Use any suitable media for the environment in which the fire or conflagration is taking place. Be mindful of any surrounding flammable/combustible materials. High volume water jet not preferred due to potential to spread fire.		
Hazardous decomposition products:	None anticipated.		
Firefighting instructions:	Firefighters and other involved individuals should wear self- contained breathing apparatuses and be aware of any flammable/combustible substances involved in the fire.		
6 ACCIDENTAL RELEASE MEAS	SURES		
Personal precautions, protective equipment, and emergency procedures:	No special measures required. Per general best practices: wear protective clothing, ensure adequate ventilation, avoid dust formation, use respiratory protective devices when anticipating fumes or dusts, and avoid contact with the eyes and skin where possible. For large spills, take precautions against dust inhalation exposure via respirator or other inhalation protection device.		
Environmental precautions:	Prevent from entering drains or water courses. Do not allow to enter soil.		
Methods and material for containment and cleanup:	Avoid formation of dust. Pick up mechanically. Ensure adequate ventilation. Store in suitable receptables for recovery or disposal. Verify compliance with local regulations for waste disposal.		
Other information:	See Section 7 for additional information on safe handling. See Section 8 for additional information on personal protective equipment. See Section 13 for additional information on disposal.		





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7 HANDLING AND STORAGE			
Precautions for safe handling:	Prevent dust formation. Any deposit of dust that cannot be prevented should be removed regularly. Do not dry clean dust- covered objects and floors: wash thoroughly with plenty of water. Use only in well-ventilated areas.		
Information about protection against explosions and fires:	No special measures required.		
Requirements for storerooms and receptacles:	Storage should occur in cool, dry, well-ventilated areas.		
Information regarding storage in common storage facility:	No special measures required.		
Further information about storage conditions:	No additional information available.		
3 EXPOSURE CONTROLS / PERS	ONAL PROTECTION		
Applicable component occupation	onal exposure limits requiring monitoring at the workplace:		
Nuisance Dusts			
OSHA PEL,	rWA (8-hr): 15 mg/m ³ (total), 5 mg/m ³ (respirable)		
	TWA (8-hr): 10 mg/m ³ (total), 5 mg/m ³ (respirable)		
Silicon Carbide (SiC), CAS# 409-21	-2		
	FWA (8-hr): 15 mg/m ³ (total), 5 mg/m ³ (respirable)		
	A (< 10-hr): 10 mg/m3 (total), 5 mg/m3 (respirable)		
	Γ WA (8-hr): 10 mg/m ³ (total), 3 mg/m ³ (respirable)		
	FWA (8-hr): 10 mg/m ³ (total), 5 mg/m ³ (respirable) All data based on limits for nonfibrous form with <1% Crystalline silica		
Note:			
Crystalline Silica, Quartz Form (Si	(Ω_2) CAS# 14808-60-7		
	Γ WA (8-hr): 50 µg/m ³ (25 µg/m ³ Action Level)		
	A(< 10-hr): 0.05 mg/m3		
	$(\underline{< 10} \text{ m})$: 0.03 mg/m ³ (respirable particulate matter)		
California: CAL/OSHA PEL, 1			
Additional limit information:	No additional information available at time of document creation.		
Engineering controls:	Ensure good ventilation/exhaustion in the workplace.		
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No special measures required.

Risk management:



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PERSONAL PROTECTIVE EQUIPMENT			
Breathing equipment:	Use suitable respiratory protective devices when airborne dusts present, i.e. N95 dust mask.		
Hand protection:	Wear protective gloves to ensure against mechanical hazards.		
Eye protection:	Wear safety glasses or goggles to protect against eye exposure.		
Body protection:	Wear general protective work clothing.		
PHYSICAL AND CHEMICAL PRO			
Physical state:	Powder		
Color:	Grey/Green		
Odor:	None		
Odor threshold:	No data available.		
pH:	No data available.		
Melting/Freezing point:	4,532°F (2,500°C)		
Initial boiling point:	No data available.		
Boiling point range:	No data available.		
Flash point:	Not applicable.		
Flammability:	Product is not flammable/combustible and will not burn.		
Upper explosive limit:	Not applicable.		
Lower explosive limit:	No applicable.		
Auto-ignition temperature:	Not applicable.		
Evaporation rate:	Not applicable.		
Vapor pressure:	Not applicable.		
Vapor density:	Not applicable.		
Relative density:	3.00 - 4.00 (water = 1.00, STP)		
Water solubility:	Insoluble in water.		
Partition coefficient:	No data available.		
Kinematic viscosity:	No data available.		
Particle characteristics:	No data available.		
0 STABILITY AND REACTIVITY			
Thermal decomposition / conditions to be avoided:	No known thermal decomposition effects.		
Hazardous reaction potential:	Reacts with strong oxidizing agents.		
Incompatible materials:	Strong oxidizing agents.		
Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO ₂)		
Other Information:	No additional information available at time of document authoring.		
1 TOXICOLOGICAL INFORMATIC	DN		
Component LC ₅₀ /LD ₅₀ values relevant for classification: None			

Probable routes of exposure: Inhalation, accidental ingestion, direct skin/eye contact.



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Effects on skin:	Dusts may cause irritation to susceptible individuals.		
Effects on eye:	Dusts may cause eye irritation similar to other inert detritus.		
Inhalation effects:	Dusts may cause irritation to respiratory tract.		
Ingestion effects:	Ingestion of pellets/granules may lead to digestive tract discomfort, or distress is consumed in large quantities.		
Sensitization effects:	Dusts may cause a sensitization reaction in susceptible individuals.		
Subacute/chronic toxicity:	Long-term exposure to free respirable crystalline silica has been demonstrated to cause silicosis, cancer, and other respiratory illnesses in humans.		
Carcinogenicity:			
NTP Listing Status:	Silica dust, crystalline - Listed as a known human carcinogen		
IARC Listing Status:	Silica dust, crystalline - Category 1 (Carcinogenic to humans)		
OSHA Listing Status:	Silica dust, crystalline - Listed as a carcinogen		
Cell mutagenicity:	No data available.		
Reproductive effects:	No data available.		
12 ECOLOGICAL INFORMATION			
Aquatic toxicity:	Not considered generally hazardous to aquatic life.		
Persistence and degradability:	No relevant data available.		
Results of PBT assessment:	No relevant data available.		
Results of vPvB assessment:	No relevant data available.		
LogK _{ow} , BCF values:	No relevant data available.		
Bioaccumulative potential:	Does not accumulate in organisms.		
Mobility in soil:	No relevant data available.		
Other adverse effects:	No relevant data available.		
Additional information:	No additional information available at time of document creation.		
13 DISPOSAL CONSIDERATION			
Waste treatment methods:	Do not dispose of product via sewage system or other liquid waste streams. Product not typically designable as household or general waste. Contact your local hazardous waste disposal authority to determine necessary steps for disposal in your locality.		
Contaminated packaging:	Contaminated packaging should be scrubbed clean prior to disposal if possible. Else follow all applicable local, state, and federal regulations for container disposal.		
Additional information:	Refer to Section 8 for exposure controls, personal protective equipment		
14 TRANSPORT INFORMATION			
DOT (US)	Not regulated for transport		
IMDG/IMO	Not regulated for transport		
ΙΑΤΑ	Not regulated for transport		
General Information:	No additional information.		





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5 REGULATORY INFORMATION			
SARA 355 Components:	Not listed		
SARA 313 Components:	Not listed		
TSCA listing status:	Listed		
Determinations of carcinogenic	status:		
California Prop. 65:	Crystalline silica, quartz form (CAS No. 14808-60-7) is known to t state of California to cause cancer when present as airborne, unbound particles of respirable size.		
EPA:	No component listed		
IARC:	Silica dust, crystalline - Cat. 1 (Carcinogenic to humans)		
ACGIH:	Silica, crystalline - α -Quartz - Cat. A2 (Suspected human carcinogen		
NIOSH:	Silica, crystalline quartz, potential occupational carcinogen		
Other state right-to-know listings:	Minnesota: Crystalline silica, quartz form (CAS No. 14808-60-7) New Jersey: Crystalline silica, quartz form (CAS No. 14808-60-7)		
Information pertaining to Canac			
Other regulations	tic Substances List: All product components are listed. This product has been classified in accordance with hazard criteria of the		
prohibitive regula			
	ations: Hazardous Products Regulations,		
5 OTHER INFORMATION All information provided is based product and any applicable regul guarantee for specific product fe	ations: Hazardous Products Regulations,		
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TSCA	Toxic Substance Control Act
TWA	Time-Weighted Average

NOTICE: This safety data sheet complements technical data sheets but does not replace them. The information contained within is based on our present knowledge of the product on the document revision date. All information provided is done so in good faith. Product users should be warned about the risks associated with using the product for a different purpose than that for which it was intended as stated within this safety data sheet and any associated technical data sheets. GNPGraystar does not provide advice or indicate qualification for giving advice for uses outside of stated intended use cases. Statements regarding applicable regulations are provided to help users meet their regulatory obligations when using this product. Statements are not exhaustive of all potential regulatory parameters a user may be bound by and does not exempt users from ensuring their own compliance with applicable regulations regarding handling, use, and storage of the product, for which they are solely responsible.

Date of Preparation:

May 3, 2023