

SAFETY DATA SHEET

CARBONORTHERN-WHITE

Section 1. Identification

GHS product identifier	:	CARBONORTHERN-WHITE
Product category(ies)	:	Oil and gas.
Other means of identification	:	Crystalline Silica Sand; Quartz Sand; Sand Proppant; Silicon Dioxide.
Product type	:	Solid.

Relevant identified uses of the substance or mixture and uses advised against

Abrasive grinding / polishing media; Casting media; Filtration media; Heat transfer media; Proppant for oil / natural gas well hydraulic fracturing.

Supplier's details	:	CARBO Ceramics Inc. 575 N. Dairy Ashford Road, Suite 300 Houston, Texas 77079, USA 1-800-551-3247
Emergency telephone number (with hours of operation)	:	For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

	Within 05A and Canada. 1-800-424-5500			
Section 2. Hazards identific	Section 2. Hazards identification			
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Classification of the substance or mixture	: CARCINOGENICITY - Category 1A			

GHS label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	: May cause cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Article.

CAS number/other identifiers

Ingredient name	%	CAS number
Crystalline silica, quartz	≥90	14808-60-7
Respirable crystalline silica	≤1	14808-60-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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Section 4. First aid measures

Description of necessary first aid measures

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Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
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: No specific data.
al attention and special treatment needed, if necessary
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
: No specific treatment.
: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures				
Extinguishing media				
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.			
Unsuitable extinguishing media	: None known.			
Specific hazards arising from the chemical	: No specific fire or explosion hazard.			
Hazardous thermal decomposition products	 Decomposition products may include the following materials: metal oxide/oxides 			

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CARBONORTHERN-WHITE	
Section 5. Fire-fighting mea	sures
Special protective actions for fire-fighters Special protective equipment for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release	e measures
Personal precautions, protective For non-emergency personnel For emergency responders	 equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in
	Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for conta	
Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Section 7. Handling and stor	rage
<u>Precautions for safe handling</u> Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Section 8. Exposure controls	s/personal protection

Control parameters

Occupational exposure limits

ection 8. Exposure cont	ols/personal protection	
Ingredient name	Exposure limits	
Crystalline silica, quartz	OSHA PEL (United States, 5/2018). TWA: 50 μg/m ³ 8 hours. Form: Respirable dust OSHA PEL Z3 (United States, 6/2016). TWA: 30 mg/m ³ / (%SiO2+2) 8 hours. Form: Tota dust	
Respirable crystalline silica	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018).	
	TWA: 50 μg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2019). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable	
	fraction	
	NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m ³ 10 hours. Form: respirable du	
ppropriate engineering ontrols nvironmental exposure ontrols	 If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. 	
dividual protection measure		
Hygiene measures	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate technique should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. 	
Eye/face protection	 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If conta- is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. 	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn a all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In th case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based the task being performed and the risks involved and should be approved by a specialist befor handling this product.	
Respiratory protection	 handling this product. Based on the hazard and potential for exposure, select a respirator that meets the appropria standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 	

Section 9. Physical and chemical properties

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<u>Appearance</u>	
Physical state	: Solid. [Solid spheres or grains.]
Color	: Tan to light gray to white.
Odor	: Odorless.
Odor threshold	: Not applicable.
рН	: Not applicable.
Melting point	: 1610°C (2930°F)
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive	: Not available.
(flammable) limits	
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 2.6
Solubility	: Not available.
Solubility in water	: Not applicable.
Partition coefficient: n-octanol/	: Not available.
water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.
Section 10. Stability and read	ctivity
Reactivity	: Not considered to be reactive.

Reactivity	: Not considered to be reactive.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Section 11. Toxicological i	nformation
Information on toxicological e	ffects
Acute toxicity	
Not available.	
Irritation/Corrosion	
Not available.	
<u>Sensitization</u>	
Not available.	
Mutagenicity	
Not available.	
Carcinogenicity	
Niet er elle ble	

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Crystalline silica, quartz	-	1	Known to be a human carcinogen.
Respirable crystalline silica	-	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

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Section 11. Toxicological information

Section 11. Toxicological Inf	ormat	lion						
Teratogenicity								
Not available.								
Specific target organ toxicity (si	ingle ex	posure)						
Not available.		۱						
Specific target organ toxicity (re Not available.	epeated	a exposure	1					
Aspiration hazard								
Not available.								
Not available.								
Information on the likely routes of exposure	: No	t available.						
Potential acute health effects								
Eye contact		-	nificant effects or					
Inhalation		-	nificant effects or					
Skin contact		-	nificant effects or					
Ingestion	: No	known sigr	nificant effects or	critical haz	ards.			
Symptoms related to the physica	al. chen	nical and to	xicological chara	cteristics				
Eye contact		specific da	-					
Inhalation		specific da						
Skin contact		specific da						
Ingestion		specific da						
Delayed and immediate effects a	ind also	o chronic ef	fects from short	and long te	erm exposure			
Short term exposure								
Potential immediate effects	-	t available.						
Potential delayed effects	: NO	t available.						
Long term exposure Potential immediate effects	• No	t available.						
Potential delayed effects		t available.						
Potential chronic health effects		avallable.						
Not available.								
General	: Nc	known sigr	nificant effects or	critical haz	ards.			
Carcinogenicity		-	ncer. Risk of can			nd level of exp	osure.	
Mutagenicity		•	nificant effects or					
Teratogenicity	: No	known sigr	nificant effects or	critical haz	ards.			
Developmental effects	: No	known sigr	nificant effects or	critical haz	ards.			
Fertility effects	: No	known sigr	nificant effects or	critical haz	ards.			
Numerical measures of toxicity Acute toxicity estimates								
N/A								
N/A								
Section 12. Ecological inform	natior	h						
Toxicity								
Not available.								
Persistence and degradability								
Not available.								
Bioaccumulative potential								
Not available.								
Mobility in soil								
Soil/water partition	· No	t available.						
coefficient (Koc)	. 110							
Date of issue/Date of revision	: 1/15/2	020	Date of previous iss	ue	: 10/22/2019	V	ersion	:4

CARBONORTHERN-WHITE Section 12. Ecological information						
Section 13. Disposal cor	nsiderations					
Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.					

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.
Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to : Not available. Annex II of MARPOL and the IBC Code

Section 15. Regulatory information **U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Air Act Section 112(b) : Not listed **Hazardous Air Pollutants** (HAPs) Clean Air Act Section 602 Class : Not listed I Substances Clean Air Act Section 602 Class : Not listed **II Substances DEA List I Chemicals (Precursor** : Not listed Chemicals) DEA List II Chemicals (Essential : Not listed Chemicals)

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Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS[®] ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS[®] ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS[®] ratings are to be used with a fully implemented HMIS[®] program. HMIS[®] is a registered trademark and service mark of the American Coatings Association, Inc. The customer is responsible for determining the PPE code for this material. For more information on HMIS[®] Personal Protective Equipment (PPE) codes, consult the HMIS[®] Implementation Manual.

National Fire Protection Association (U.S.A.)



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Procedure used to derive the classification

	Classificatio	on	Justification
CARCINOGENICITY - Category 1A			Calculation method
<u>History</u>			
Date of printing	: 1/15/2020		
Date of issue/Date of revision	1/15/2020		
Date of previous issue	10/22/2019		
Version	4		
Key to abbreviations	IATA = Internati IBC = Intermedi IMDG = Interna LogPow = logari MARPOL = Inter	ntration Factor Harmonized System of Classification and Lab ional Air Transport Association ate Bulk Container tional Maritime Dangerous Goods ithm of the octanol/water partition coefficie rnational Convention for the Prevention of P e Protocol of 1978. ("Marpol" = marine pollu- able ion Group	nt Pollution From Ships, 1973 as
References	Not available.		

Indicates information that has changed from previously issued version.

Notice to reader

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