

**SAFETY DATA SHEET** 

# **CARBOBOND CP**

Section 1. Identification							
GHS product identifier	: CARBOBOND CP						
Product category(ies)	: Oil and gas.						
Other means of identification	Resin-Coated Ceramic Proppant; Semi-Crystalline Alumina Silicate; Sintered Bauxite.						
Product type	: Solid.						
<u>Relevant identified uses of the s</u> Proppant for oil and natural gas	substance or mixture and uses advised against 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						
Section 2. Hazards identific	ation						
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.						
Classification of the substance or mixture	: Not classified.						
GHS label elements							
Signal word	: No signal word.						
Hazard statements	: No known significant effects or critical hazards.						
Precautionary statements							
Prevention	: Not applicable.						
Response	: Not applicable.						
Storage	: Not applicable.						
Disposal	: Not applicable.						
Hazards not otherwise	: None known.						
classified							
Section 3. Composition/infe	ormation on ingredients						
Substance/mixture	: Article.						
CAS number/other identifiers							
Ingredient name	% CAS number						
Ceramic materials and wares, ch	nemicals ≥90 66402-68-4						

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.

Phenol formaldehyde resin.

≤5

66402-68-4 9003-35-4

## Section 4. First aid measures

Description of necessary	<u>y first aid measures</u>

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

Section 5. Fire-fighting mea	sures
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Product may ignite if exposed to open flame or other ignition sources.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters Special protective equipment for fire-fighters	<ul> <li>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.</li> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

#### Section 6. Accidental release measures Personal precautions, protective equipment and emergency procedures For non-emergency personnel : 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. Put on appropriate personal protective equipment. : If specialized clothing is required to deal with the spillage, take note of any information in For emergency responders 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 containment and cleaning up Small spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. : Move containers from spill area. Prevent entry into sewers, water courses, basements or Large spill confined areas. Vacuum or sweep up material and place in a designated, 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 storage **Precautions for safe handling Protective measures** : Put on appropriate personal protective equipment (see Section 8). Advice on general : Eating, drinking and smoking should be prohibited in areas where this material is handled, occupational hygiene 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, : Store in accordance with local regulations. Store in original container protected from direct including any incompatibilities sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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/personal protection

#### Control parameters

Ingredient name		Exposure limits		
Ceramic materials and wares, cl	nemicals	None.		
Phenol formaldehyde resin.		None.		
controlscontaminants.Environmental exposure controlsEmissions from ventilation or work pr comply with the requirements of envi		sufficient to control worker exposure to airborne process equipment should be checked to ensure they vironmental protection legislation. In some cases, fume difications to the process equipment will be necessary to ls.		
<u>Individual protection measures</u> Hygiene measures	smoking and using the lavatory and at should be used to remove potentially o	ighly after handling chemical products, before eating, the end of the working period. Appropriate techniques contaminated clothing. Wash contaminated clothing tations and safety showers are close to the workstatior		

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Section 8. Exposure cont	rols/personal protection
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 contact 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 at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate 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

<u>Appearance</u>		
Physical state	:	Solid. [Solid spheres.]
Color	:	Pale green to pale yellow.
Odor	:	Odorless.
Odor threshold	:	Not applicable.
рН	:	Not applicable.
Melting point	:	Not available.
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	:	3.3
Solubility	:	Not available.
Solubility in water	:	Not applicable.
Partition coefficient: n-octanol/	:	<2.3
water		
Auto-ignition temperature		Not available.
Decomposition temperature		Not available.
Viscosity		Not available.
Flow time (ISO 2431)	:	Not available.
Section 10. Stability and rea	cti	vity
Reactivity	:	Not considered to be reactive.
Chemical stability	:	The product is stable.
Possibility of hazardous	:	Under normal conditions of storage and use, hazardous reactions will not occur.
reactions		
Conditions to avoid		Avoid exposure to flame or other ignition sources.
	•	Avoid exposure to name of other ignition sources.
Incompatible materials	:	Strong oxidizer
-		
Hazardous decomposition	:	Thermal decomposition may produce oxides of carbon, oxides of nitrogen, ammonia, aldehydes,
products		phenol or other materials.

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# Section 11. Toxicological information

	mation		
Information on toxicological effect	<u>s</u>		
Acute toxicity			
Not available.			
Irritation/Corrosion			
Not available.			
<u>Sensitization</u>			
Not available.			
<u>Mutagenicity</u>			
Not available.			
Carcinogenicity			
Not available.			
<u>Classification</u>			
Product/ingredient name	OSHA	IARC	NTP
Ceramic materials and wares,	-	3	-
chemicals			
Reproductive toxicity			
Not available.			
Teratogenicity			
Not available.			
Specific target organ toxicity (sing Not available.	<u>gle exposure</u>	1	
Specific target organ toxicity (rep	eated expos	<u>ure)</u>	
Not available.			
Aspiration hazard			
Not available.			
Information on the likely routes of exposure	: Not availa	ble.	
Potential acute health effects			- ffe ster en witting here wels
-		-	effects or critical hazards.
		-	effects or critical hazards.
		-	effects or critical hazards.
Ingestion	: NO KHOWH	Significante	effects or critical hazards.
Symptoms related to the physical,	chemical an	d toxicologi	cal characteristics
Eye contact	: No specifi	c data.	
Inhalation	: No specifi	c data.	
Skin contact	No specifi	c data.	
Ingestion	: No specifi	c data.	
Delayed and immediate effects and	d also chroni	c effects fro	om short and long term exposure
Short term exposure			
-	: Not availa	ble.	
	Not availa		
Long term exposure		~	
	: Not availa	ble.	
	Not availa		
Potential chronic health effects			
Not available.			
	: No known	significant e	effects or critical hazards.
		-	effects or critical hazards.
		-	effects or critical hazards.
		-	effects or critical hazards.
		-	effects or critical hazards.
-		-	effects or critical hazards.

Date of issue/Date of revision

# Section 11. Toxicological information

# Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecolo	ogical information				
<u>Toxicity</u> Not available.					
Persistence and deg Not available.					
Bioaccumulative po Product/ingredien			BCF	Poten	tial
CARBOBOND CP	<2.3		-	low	
<u>Mobility in soil</u> Soil/water partitic coefficient (K <sub>oc</sub> )	on : Nota	vailable.			
Other adverse effec	cts : No kn osal considerations	own significant effects	or critical hazards.		
Disposal methods	produ enviro requir contr with t Incine and it some water	eneration of waste sho uct, solutions and any b pomental protection an rements. Dispose of su actor. Waste should no the requirements of all eration or landfill should so container must be dis product residues. Avo	y-products should at a d waste disposal legisl rplus and non-recyclak ot be disposed of untre authorities with jurisd d only be considered w sposed of in a safe way id dispersal of spilled n	Il times comply with t ation and any regiona ole products via a licer ated to the sewer unl ction. Waste packagi when recycling is not fe . Empty containers of	he requirements of I local authority used waste disposal ess fully compliant ng should be recycled. easible. This material r liners may retain
Section 14. Trans	sport information				
	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

Packing group

Environmental

hazards

class(es)

Not available.

No.

Not available.

-

No.

: **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.

Not available.

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No.

Not available.

-

No.

No.

Not available.

CARBOBOND CP							
Section 14. Transport infor	mai	tion					
Transport in bulk according to Annex II of MARPOL and the IBC Code		Not avai	able.				
Section 15. Regulatory info	rma	ation					
U.S. Federal regulations	:	TSCA 8(a	) CDR Exempt/Partial exempti	on: Not determined			
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not liste	d				
Clean Air Act Section 602 Class I Substances	:	Not liste	d				
Clean Air Act Section 602 Class II Substances	:	Not liste	d				
DEA List I Chemicals (Precursor Chemicals)	r :	Not liste	d				
DEA List II Chemicals (Essential Chemicals)	:	Not liste	d				
SARA 302/304 Composition/information on No products were found.	ingr	<u>edients</u>					
SARA 304 RQ <u>SARA 311/312</u>		Not appl					
Classification Composition/information on No products were found.		Not applic redients	able.				
State regulations							
Massachusetts			the components are listed.				
New York			the components are listed.				
New Jersey Pennsylvania			the components are listed. the components are listed.				
California Prop. 65	•	None of	the components are listed.				
	quire	e a Safe Ha	arbor warning under California	Prop. 65.			
International regulations							
Chemical Weapon Convention	List	Schedule	s I, II & III Chemicals				
Not listed.							
<u>Montreal Protocol</u> Not listed.							
Stockholm Convention on Pers Not listed.	<u>iste</u>	<u>nt Organi</u>	<u>c Pollutants</u>				
Rotterdam Convention on Prio Not listed.	or Inf	formed Co	onsent (PIC)				
UNECE Aarhus Protocol on POF Not listed.	Ps ar	nd Heavy	<u>Metals</u>				
Inventory list							
Australia	:	All comp	onents are listed or exempted.				
Canada	:	All comp	onents are listed or exempted.				
China		-	onents are listed or exempted.				
Europe			onents are listed or exempted.				
Japan	:	-	ventory (ENCS): Not determine				
New Zealand		-	ventory (ISHL): Not determined onents are listed or exempted.				
Philippines		-	onents are listed or exempted.				
Republic of Korea		-	onents are listed or exempted.				
Taiwan	:	-	onents are listed or exempted.				
Thailand	:	Not dete	rmined.				
Turkey	:	All comp	onents are listed or exempted.				
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CARBOBOND CP Section 15. Regulatory information				
Viet Nam	: Not determined.			
Section 16. Other inf Hazardous Material Info				
Health	/ 0			
Flammability	0			
Physical hazards	0			

Caution: HMIS<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> 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<sup>®</sup> Personal Protective Equipment (PPE) codes, consult the HMIS<sup>®</sup> Implementation Manual.

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



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Procedure used to derive the classification

Classification	Justification
Not classified.	

History	
Date of printing	: 10/22/2019
Date of issue/Date of revision	: 10/22/2019
Date of previous issue	: 10/14/2019
Version	: 2
Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as
	modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
References	: Not available.
Indicates information that has	s changed from previously issued version.

Notice to reader

### CARBOBOND CP

#### Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.