

**SAFETY DATA SHEET** 

# CARBOHYDROPROP

#### Section 1. Identification **GHS** product identifier : CARBOHYDROPROP Product category(ies) : Oil and gas. Other means of identification : Ceramic Proppant; Semi-Crystalline Alumina Silicate; Sintered Kaolinite. **Product type** : Solid. Relevant identified uses of the substance or mixture and uses advised against Proppant for oil and 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** : For Chemical Emergency (with hours of operation) Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Section 2. Hazards identification **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. : Not classified. Classification of the substance or mixture **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. : Not applicable. Storage Disposal : Not applicable. Hazards not otherwise : None known. classified Section 3. Composition/information on ingredients Substance/mixture : Article. CAS number/other identifiers

Ingredient name	%	CAS number
Ceramic materials and wares, chemicals	95 - 100	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.

## Section 4. First aid measures

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

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.</li> <li>Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
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.
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
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 releas	
Personal precautions, protective	e 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 perso	onnel from entering. Do not touch
	or walk through spilled material. Put on appropriate persona	l protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, tak	e note of any information in
	Section 8 on suitable and unsuitable materials. See also the in	nformation in "For non-emergency

personnel".

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Section 6. Accidental releas	se measures			
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 cont	ainment 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.			
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or 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 sto	prage			
Precautions for safe handling				
Protective measures	: Put on appropriate personal protective equipment (see Section 8).			
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. 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**

## Occupational exposure limits

Ingredient name		Exposure limits		
Ceramic materials and wares, chemicals None.		None.		
Appropriate engineering controls	: Good general ventilation should be suffici contaminants.	ent to control worker exposure to airborne		
Environmental exposure controls	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.			
Individual protection measures				
Hygiene measures	smoking and using the lavatory and at the should be used to remove potentially con	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 techniques 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	indicates this is necessary to avoid exposition is possible, the following protection should be a set of the following b	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	: 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.			

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Section 8. Exposure control	s/personal protection			
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based o the task being performed and the risks involved and should be approved by a specialist before handling this product.			
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 cher				
Appearance				
Physical state	: Solid. [Solid spheres.]			
Color	: Light gray to light tan.			
Ddor	: Odorless.			
Ddor threshold	: Not applicable.			
он	: Not applicable.			
Melting point	: 2204.5°C (4000.1°F)			
Boiling point	: Not available.			
lash point	: Not available.			
vaporation rate	: Not available.			
lammability (solid, gas)	: Not available.			
ower and upper explosive	: Not available.			
flammable) limits				
/apor pressure	: Not available.			
apor density	: Not available.			
elative density				
olubility	: Not available.			
Solubility in water	: Not applicable.			
Partition coefficient: n-octanol/	: Not available.			
vater Auto-ignition temperature	: Not available.			
Decomposition temperature	: Not available.			
/iscosity	: Not available.			
Flow time (ISO 2431)	: Not available.			
Section 10. Stability and rea	activity			
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.			
ncompatible materials	: Strong oxidizer			
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
Section 11. Toxicological inf	formation			
Information on toxicological effe				
Acute toxicity				
Not available.				
Irritation/Corrosion				
Not available.				
Sensitization				
Not available.				

Not available. Mutagenicity

Not available.

Carcinogenicity

Not available.

Date of issue/Date of revision

Version

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Section 11. Toxicological info	ormation_			
Classification				
Product/ingredient name	OSHA	IARC	NTP	
Ceramic materials and wares, chemicals	-	3	-	
Reproductive toxicity				
Not available.				
<b>Teratogenicity</b>				
Not available.				
Specific target organ toxicity (sin	ngle exposur	<u>e)</u>		
Not available.				
Specific target organ toxicity (re	peated expo	<u>sure)</u>		
Not available.				
Aspiration hazard				
Not available.				
Information on the likely routes	: Not avail	able.		
of exposure				
Potential acute health effects				
Eye contact	: No know	n significar	nt 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.			
Symptoms related to the physica	l. chemical a	nd toxicolo	pgical characteristics	
Eye contact	: No speci		<b>0</b>	
Inhalation	: No speci			
Skin contact	: No speci			
Ingestion	: No speci			
Delaved and immediate effects a	nd also chro	nic effects	from short and long term exposure	
Short term exposure			······································	
Potential immediate effects	: Not avail	able.		
Potential delayed effects	: Not avail	able.		
Long term exposure				
Potential immediate effects	: Not avail	able.		
Potential delayed effects	: Not avail	able.		
Potential chronic health effects				
Not available.				
General	: No know	n significar	nt effects or critical hazards.	
Carcinogenicity		-	nt effects or critical hazards.	
Mutagenicity	: No know	n significar	nt effects or critical hazards.	
Teratogenicity	: No know	n significar	nt effects or critical hazards.	
<b>Developmental effects</b>		-	nt effects or critical hazards.	
Fertility effects	: No know	n significar	nt effects or critical hazards.	
Numerical measures of toxicity				
Acute toxicity estimates				

Acute toxicity estimates N/A

#### Section 12. Ecological information

#### **Toxicity**

Not available.

Persistence and d	legradability
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Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

#### **Other adverse effects**

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport 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 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

CARBOHYDROPROP				
Section 15. Regulatory information				
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined			
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	: Not listed			
Clean Air Act Section 602 Class I Substances	: Not listed			
Clean Air Act Section 602 Class II Substances	: Not listed			
DEA List I Chemicals (Precursor Chemicals)	: Not listed			
DEA List II Chemicals (Essential Chemicals)	: Not listed			
<u>SARA 302/304</u>				
Composition/information on No products were found.	<u>ingredients</u>			
SARA 304 RQ	: Not applicable.			
<u>SARA 311/312</u>				
Classification	: Not applicable.			
Composition/information on	ingredients			
No products were found.				
State regulations				
Massachusetts	: None of the components are listed.			
New York	: None of the components are listed.			
New Jersey	: None of the components are listed.			
Pennsylvania	: None of the components are listed.			
California Prop. 65	wire a Safe Harbor warning under California Drop. CE			
-	quire a Safe Harbor warning under California Prop. 65.			
International regulations	List Schedules I, II & III Chemicals			
Not listed.	List Schedules I, II & III Chemicals			
Montreal Protocol				
Not listed.				
Stockholm Convention on Persi	istent Organic Pollutants			
Not listed.	istent organic Fondtants			
Rotterdam Convention on Prior	r Informed Consent (PIC)			
Not listed.				
UNECE Aarhus Protocol on POP	's and Heavy Metals			
Not listed.				
Inventory list				
Australia	: All components are listed or exempted.			
Canada	: All components are listed or exempted.			
China	: All components are listed or exempted.			
Europe	: All components are listed or exempted.			
Japan	: Japan inventory (ENCS): Not determined.			
	Japan inventory (ISHL): All components are listed or exempted.			
New Zealand	: All components are listed or exempted.			
Philippines	: All components are listed or exempted.			
Republic of Korea	: All components are listed or exempted.			
Taiwan	: All components are listed or exempted.			
Thailand	: Not determined.			
Turkey	: All components are listed or exempted.			
United States	: All components are listed or exempted.			
Viet Nam	: Not determined.			

### Section 16. Other information

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



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.			
<u>History</u>			
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	<ul> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IBC = Internediate Bulk Container</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as</li> <li>modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>N/A = Not available</li> </ul>		
References	SGG = Segregation Group UN = United Nations Not available.		

Indicates information that has changed from previously issued version.

#### Notice to reader

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