SAFETY DATA SHEET



CARBOBOND KRYPTOSPHERE LD EU

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Product name	: CARBOBOND KRYPTOSPHERE LD EU
Product category(ies)	: Oil and gas.
Product description	: Not available.
Product type	: Solid.
Other means of identification	: Resin-Coated Ceramic Proppant; Semi-Crystalline Alumina Silicate; Sintered Kaolinite.

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

Proppant for oil and natural gas well hydraulic fracturing.

1.3 Details of the supplier of the safety data sheet

<u>Supplier</u>

CARBO Ceramics Inc.	
575 N. Dairy Ashford Road, Suite 300	
Houston, Texas 77079, USA	
E-mail address of person : responsible for this SDS	productstewardship@carboceramics.com

1.4 Emergency telephone n	lumber
Supplier information	: For Chemical Emergency
(with hours of operation)	Spill, Leak, Fire, Exposure, or Accident
	Call CHEMTREC Day or Night
	+1 202-366-4488 (outside the USA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 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.		
Hazardous ingredients	:	Ceramic materials and wares, chemicals		
		Formaldehyde, oligomeric reaction products with phenol		
Supplemental label elements	:	Not applicable.		
Annex XVII - Restrictions on the	:	Not applicable.		
manufacture, placing on the				
market and use of certain				
dangerous substances, mixtures				
and articles				
Special packaging requirements				
Date of issue/Date of revision		: 1/28/2020 Date of previous issue : 1/28/2020	Version : 5	1/10

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 CARBOBOND KRYPTOSPHERE LD EU

SECTION 2: Hazards identifi	cation
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006,	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Annex XIII Other hazards which do not : None known. result in classification

SECTION 3: Composition/information on ingredients

: Mixture

3.1 Substances

Substances

3.2 Mixtures Mixtures :	Mixture			
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Ceramic materials and wares, chemicals	EC: 266-340-9 CAS: 66402-68-4	≥90	Not classified.	[6]
Formaldehyde, oligomeric reaction products with phenol	EC: 500-005-2 CAS: 9003-35-4	≤5	Not classified.	[6]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid 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.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	: No specific data.	

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	ue: 1/28/2020 Version: 5	2/10

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CARBOBOND KRYPTOSPHERE LD EU		
SECTION 4: First aid measur	es	
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
SECTION 5: Firefighting mea		
5.1 Extinguishing media		Use an extinguishing agent suitable for the surrounding fire
Suitable extinguishing media Unsuitable extinguishing media		Use an extinguishing agent suitable for the surrounding fire. None known.
	•	None known.
5.2 Special hazards arising fro	m i	the substance or mixture
Hazards from the substance or mixture	:	No specific fire or explosion hazard.
Hazardous combustion products	:	Decomposition products may include the following materials:
		carbon dioxide
		carbon monoxide
		metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for	•	Promptly isolate the scene by removing all persons from the vicinity of the incident if there
fire-fighters	·	is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment	•	Fire-fighters should wear appropriate protective equipment and self-contained breathing
for fire-fighters	•	apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for
C C		fire-fighters (including helmets, protective boots and gloves) conforming to European
		standard EN 469 will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental relea	se	measures
6.1 Personal precautions, prot	ec	tive equipment and emergency procedures
Suitable extinguishing media		Use an extinguishing agent suitable for the surrounding fire.
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 chilled material. But an appropriate personal protective equipment
		touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in
For emergency responders	:	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-
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in
		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-
6.2 Environmental precaution	S	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".
	S	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". Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and
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6.2 Environmental precaution Environmental precautions 6.3 Methods and materials for	s : : :	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". 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). Ontainment and cleaning up 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
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6.2 Environmental precaution Environmental precautions 6.3 Methods and materials for Small spill Large spill	s : :	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". 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). Datainment and cleaning up 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 confined areas. Vacuum or sweep up material and place in a designated, labeled waste
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6.2 Environmental precaution Environmental precautions 6.3 Methods and materials for Small spill Large spill 6.4 Reference to other section	s : : :	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". 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). Intainment and cleaning up 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 confined areas. Vacuum or sweep up material and place in a designated, labeled waste
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The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

SECTION 7: Handling and storage		
7.1 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.	

7.2 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 wellventilated 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.

7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
SECTION 8: Exposure cor	ntrols/personal protection
	n contains generic advice and guidance. Information is provided based on typical anticipated uses easures might be required for bulk handling or other uses that could significantly increase worker eleases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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DNELs/DMELs

No DNELs/DMELs available. <u>PNECs</u> No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measures	
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 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	: 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.
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SECTION 8: Exposure con	ntrols/personal protection
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.
Other skin protection	 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.
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.
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.

SECTION 9: Physical and che	m	ical properties
9.1 Information on basic physic	ica	l and chemical properties
Appearance		
Physical state	:	Solid. [Solid spheres.]
Color	:	Pale green to pale yellow.
Odor	:	Odorless.
Odor threshold	:	Not applicable.
рН	:	Not applicable.
Melting point/freezing point	:	Not available.
		Not applicable (cross-linked resin coating); 2,204°C / 4000°F (estimated - substrate)
Initial boiling point and boiling	:	Not available.
range		
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)		Not available.
Upper/lower flammability or	:	Not available.
explosive limits		
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density (water = 1)	•	2.7
Solubility(ies)		Not available.
Partition coefficient: n-octanol/	:	<2.3
water		4 52 - 13
Bulk density (g/cm3)		1.53 g/cm ³
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	:	Not available.
9.2 Other information	_	
9.2 Other information		

Solubility in water

: Not applicable.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 CARBOBOND KRYPTOSPHERE LD EU

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SECTION 10: Stability and	reactivity
10.1 Reactivity	
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	
Chemical stability	: The product is stable.
10.3 Possibility of hazardous	s reactions
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	
Conditions to avoid	: No specific data.
10.5 Incompatible materials	
Incompatible materials	: No specific data.
10.6 Hazardous decompositi	ion products
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information				
11.1 Information on toxicolog	ical	effects		
Acute toxicity				
Conclusion/Summary	:	Not available.		
Acute toxicity estimates				
N/A				
Irritation/Corrosion				
Conclusion/Summary	:	Not available.		
Sensitization				
Conclusion/Summary	:	Not available.		
Mutagenicity				
Conclusion/Summary	:	Not available.		
Carcinogenicity				
Conclusion/Summary	:	Not available.		
Reproductive toxicity				
Conclusion/Summary	:	Not available.		
Teratogenicity				
Conclusion/Summary	:	Not available.		
Specific target organ toxicity (sing	gle e	xposure)		
Not available.				
Specific target organ toxicity (rep	eate	d exposure)		
Not available.				
Aspiration hazard				
Not available.				
Information on the likely revited		Not available		
Information on the likely routes of exposure	•	NOT available.		
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.		
	•			
Symptoms related to the physica	l, ch	emical and toxicological characteristics		
Eye contact	:	No specific data.		
Inhalation	:	No specific data.		
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SECTION 11: Toxicological ir	nfo	rmation
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects a	nd	also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effects		
Not available.		
Conclusion/Summary	:	Not available.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Other information	÷	Not available.

SECTION 12: Ecological information	
12.1 Toxicity	
Conclusion/Summary	: Not available.

12.2 Persistence and degrac	dability
Conclusion/Summary	: Not available.

12.3 Bioaccumulative potential			
Product/ingredient name	LogPow	BCF	Potential
CARBOBOND KRYPTOSPHERE LD EU	<2.3	-	low

12.4 Mobility in soil		
Soil/water partition coefficient	:	Not available.
(Koc)		
Mobility	:	Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effect	S
Other adverse effects	: No known significant effects or critical hazards.
SECTION 13: Disposal co	nsiderations
The information in this section	on contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted
for any available use-specific	information provided in the Exposure Scenario(s).
13.1 Waste treatment me	thods

ProductMethods of disposal: 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.

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SECTION 13: Disposal considerations			
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.		
Packaging			
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 		
Special precautions	: 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				
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not available.	Not available.	Not available.	Not available.
14.2 UN proper shipping name	Not available.	Not available.	Not available.	Not available.
14.3 Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

pecial precautions

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.

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions on the : Not applicable. manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other EU regulations** Industrial emissions (integrated : Not listed pollution prevention and control) - Air Date of issue/Date of revision : 1/28/2020

er indedente kinn rest here ee ee	
SECTION 15: Regulatory	rinformation
Industrial emissions (integra	ated : Not listed
pollution prevention	
and control) - Water	
Ozone depleting substances	<u>s (1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (PIC	<u>2) (649/2012/EU)</u>
Not listed.	
Seveso Directive	
	d under the Seveso Directive.
National regulations	
International regulations	
Chemical Weapon Conventi	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	Persistent Organic Pollutants
Not listed.	
	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on	POPs 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): Not determined.
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.

15.2 Chemical Safety Assessment

Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information	tion			
Indicates information that has a second s	s changed from previously iss	ued version.		_
Abbreviations and acronyms Procedure used to derive the cl	DMEL = Derived Minimal DNEL = Derived No Effect EUH statement = CLP-spect N/A = Not available PBT = Persistent, Bioaccu PNEC = Predicted No Effect RRN = REACH Registratio SGG = Segregation Group vPvB = Very Persistent ar	elling and Packaging Regulation [I Effect Level t Level ecific Hazard statement umulative and Toxic ect Concentration on Number o nd Very Bioaccumulative		008]
	Classification		Justification	
Not classified.				
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SECTION 16: Other information

Full text of abbreviated H statements Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Notice to reader		

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.