

SAFETY DATA SHEET

ACCUCAST LD

Section 1. Identification **GHS** product identifier : ACCUCAST LD Product category(ies) : Casting and foundry. Other means of identification : Ceramic Casting Media; Semi-Crystalline Alumina Silicate; Sintered Kaolinite. **Product type** : Solid. Relevant identified uses of the substance or mixture and uses advised against Casting media for cores, molds and related applications. 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. Classification of the substance : Not classified. 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

Description of necessar	y first aid measures

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	isures
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	 No specific fire or explosion hazard. Decomposition products may include the following materials: metal oxide/oxides
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	se measures
	equipment and emergency procedures : 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 relea	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	tainment 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	dient name Exposure limits		
Ceramic materials and wares, cl	hemicals	None.	
Appropriate engineering controls	: Good general ventilation should be s contaminants.	ufficient 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 should be used to remove potentiall	oughly after handling chemical products, before eating, at the end of the working period. Appropriate techniques y contaminated clothing. Wash contaminated clothing n stations and safety showers are close to the workstation	
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		s complying with an approved standard should be worn at oducts 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 of 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	mical properties
<u>Appearance</u>	
Physical state	: Solid. [Solid spheres.]
Color	: Light gray to light tan.
Odor	: Odorless.
Odor threshold	: Not applicable.
рН	: Not applicable.
Melting point	: 2204.5°C (4000.1°F)
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
-lammability (solid, gas)	: Not available.
ower and upper explosive	: Not available.
flammable) limits	
/apor pressure	: Not available.
/apor density	: Not available.
Relative density	: 2.7
Solubility	: Not available.
Solubility in water	: Not applicable.
Partition coefficient: n-octanol/	: Not available.
water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available. : Not available.
Viscosity Flow time (ISO 2431)	: Not available.
Section 10. Stability and rea	
Reactivity	: Not considered to be reactive.
Chemical stability	: The product is stable.
chemical stability	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible 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	ects
Acute toxicity	
Not available.	
Irritation/Corrosion	
Not available.	
Sensitization	
Not available.	
Mutagonicity	

Mutagenicity

Not available.

Carcinogenicity Not available.

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Section 11. Toxicological info	rmation		
Classification			
Product/ingredient name	OSHA	IARC	NTP
Ceramic materials and wares,	_	3	-
chemicals			
Reproductive toxicity			
Not available.			
Teratogenicity			
Not available.			
Specific target organ toxicity (sin	<u>gle exposure</u>	2)	
Not available.			
Specific target organ toxicity (rep	peated expos	<u>sure)</u>	
Not available.			
Aspiration hazard			
Not available.			
Information on the likely routes	: Not availa	ble.	
of exposure			
Potential acute health effects			
Eye contact	: No knowr	n significant	effects or critical hazards.
Inhalation	: No knowr	n significant	effects or critical hazards.
Skin contact	: No knowr	n significant	effects or critical hazards.
Ingestion	: No knowr	n significant	effects or critical hazards.
Symptoms related to the physical	chemical an	d toxicolog	ical characteristics
Eye contact	: No specifi	-	
Inhalation	: No specifi		
Skin contact	: No specifi		
Ingestion	: No specifi		
Delayed and immediate offects an		ia offecto fu	
Delayed and immediate effects ar Short term exposure	in also chiron	ic enects ff	טוון אוטרג מווע וטווק נבווון באַטָּטאַנוּב
Potential immediate effects	: Not availa	hlo	
Potential delayed effects	: Not availa		
Long term exposure	• NUL availa	IDIC.	
Potential immediate effects	: Not availa	hle	
Potential delayed effects	: Not availa		
Potential chronic health effects	. Not availe		
Not available.			
General	• No knowr	n significant	effects or critical hazards.
Carcinogenicity		-	effects or critical hazards.
Mutagenicity		-	effects or critical hazards.
Teratogenicity			effects or critical hazards.
Developmental effects		•	effects or critical hazards.
Fertility effects		-	effects or critical hazards.
Numerical second states			
Numerical measures of toxicity			

Acute toxicity estimates

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Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

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

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Section 15. Regulatory info	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 Il Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
DEA List II Chemicals (Essential Chemicals)	: Not listed				
SARA 302/304					
Composition/information on	ingreaients				
No products were found.	• Not applicable				
SARA 304 RQ <u>SARA 311/312</u>	: Not applicable.				
Classification	: Not applicable.				
Composition/information on					
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					
This product does not req	quire a Safe Harbor warning under California Prop. 65.				
International regulations					
Chemical Weapon Convention	List Schedules I, II & III Chemicals				
Not listed.					
Montreal Protocol					
Not listed.					
Stockholm Convention on Persi Not listed.	istent Organic Pollutants				
Rotterdam Convention on Prior	<u>r Informed Consent (PIC)</u>				
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 inventory (ENCS): Not determined. 				
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.				

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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

	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	: 4			
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 = Internediate 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 changed from previously issued version.

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