

*A Safety Data Sheet is not legally required for this product under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The following information is provided as a courtesy service to our customers.*

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING****1.1 Product identifier**

Trade name: **ACCUCAST® ID FLOUR**  
Registration number: NA  
Synonym(s): Ceramic Casting Aid; Semi-Crystalline Alumina Silicate; Sintered Bauxite  
Preparation/Revision date: 6 September 2018

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

Identified uses: Casting additive for cores, molds and related applications  
Uses advised against: None known

**1.3 Details of the supplier of the safety data sheet**Manufacturer / Supplier

Company name: CARBO Ceramics Inc.  
Address: 575 N. Dairy Ashford Road, Suite 300  
Houston, Texas 77079, USA  
Customer service: 1-337-367-6151

**1.4 Emergency telephone number**

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 IDENTIFICATION****2.1 Classification of the substance or mixture**

The article has been assessed and /or tested for its physical, health and environmental hazards and the following classifications apply.

Classification according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification: Not classified

**2.2 Label elements**

Contains: None  
Hazard pictogram: None  
Signal word: None

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Hazard statement: None  
Precautionary statements:  
- Prevention: None  
- Response: None  
- Storage: None  
- Disposal: None  
Supplemental label information: None

**2.3 Other hazards** None

### Hazard summary

Physical hazards: Not classified for physical hazards.  
Health hazards: This product contains respirable dusts. Prolonged inhalation of insoluble, respirable (less than 10 micron) dusts can lead to pulmonary damage. Use standard hygienic practices to minimize exposure to dusts that may form.  
Environmental hazards: Not classified for hazards to the environment.  
Main symptoms: Exposure to dust may cause irritation of eyes, nose, throat and mucous membranes. Prolonged contact with skin may cause irritation.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### ARTICLE

#### 3.1 Substances

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS No.</u>	<u>Notes</u>
Ceramic materials and wares, chemicals	100	66402-68-4	-

**Composition comments:** The full text for all R- and H- phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredients are a gas. Gas concentrations are in percent by volume.

#### General Information

Show this Safety Data Sheet to the medical professional in attendance. Exposure is not anticipated with use of this product as intended. If symptoms occur, follow first aid measures as appropriate.

## SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation: Remove to fresh air. Get medical attention if irritation or symptoms persist.  
Skin contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Eye contact: Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Get medical attention if irritation or symptoms persist.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical attention.

Notes to Physician: None specified

#### 4.2 Most important symptoms and effects, both acute and delayed

Exposure to dust may cause irritation of eyes, nose, throat and mucous membranes. Prolonged contact with skin may cause irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptoms as needed.

### SECTION 5: FIRE FIGHTING MEASURES

**General fire hazards** This product is not flammable.

#### 5.1 Extinguishing Media

Suitable extinguishing media: Not applicable

Unsuitable extinguishing media: Not applicable

**5.2 Special hazards arising from the substance or mixture** Not applicable

#### 5.3 Advice for firefighters

Special protective equipment for firefighters: Not applicable

Special firefighting procedures: Not applicable

Special remarks on fire hazards: None

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid dust formation. Wear suitable protective clothing. Avoid contact with skin and eyes.

For emergency responders: Use personal protection recommended in Section 8 of the SDS.

**6.2 Environmental Precautions** None known

**6.3 Methods and materials for containing and cleaning up**

Sweep up spilled substance and remove to safe place. Pick up and arrange for disposal without creating dust. Collect and dispose of spillage as indicated in Section 13.

**6.4 Reference to other Sections**

For personal protection, see Section 8.  
For waste disposal, see Section 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid dust formation. Avoid breathing dust. Observe good industrial hygiene practices. Spilled material can reduce traction and may present a slip hazard.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in accordance with local, regional, national and international regulations.

**7.3 Specific end use(s)**

Industrial use – casting aid.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Control parameters****United States. Occupational Exposure Limits**

Component	CAS No.	Type	Value	Form
Ceramic materials and wares, chemicals	66402-68-4	N/A	N/A	N/A

**Consult local authorities for acceptable exposure limits****8.2 Exposure Controls**

Appropriate engineering controls: Observe occupational exposure limits and prevent generation of dusts.

**Individual Protective Measures**

General Information: Personal protective equipment should be chosen according to applicable standards and in consultation with the supplier of the personal protective equipment.

Eye/face protection: Wear safety glasses with side shields or goggles. Avoid wearing contact lenses while handling.

**Skin protection:**

- Hand protection: Wear protective gloves.
- Other: Minimize skin contact.

**Respiratory protection:**

In case of inadequate ventilation or risk of inhalation of dust, use a suitable air purifying respirator with particle filter or dust mask (Type P2).

**Thermal hazards:**

Not applicable

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Form</b>	Solid powder	<b>Explosive properties</b>	Not applicable
<b>Color</b>	Brown to dark green to black	<b>Explosive limit</b>	Not applicable
<b>Odor</b>	Odorless	<b>Vapor pressure</b>	Not applicable
<b>Odor threshold</b>	Not applicable	<b>Vapor density</b>	Not applicable
<b>pH</b>	7.4	<b>Evaporation rate</b>	Not applicable
<b>Melting/freezing point</b>	4,000°F / 2,204°C (Estimated)	<b>Relative density</b>	3.5 (water = 1)
<b>Boiling point, initial boiling point and boiling range</b>	Not applicable	<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Flash point</b>	Not applicable	<b>Solubility (water)</b>	Insoluble in water
<b>Auto-ignition temperature</b>	Not applicable	<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Bulk density</b>	86 lb/ft <sup>3</sup> (1.37 g/cm <sup>3</sup> )
<b>Flammability limit-lower%</b>	Not applicable	<b>Viscosity</b>	Not applicable
<b>Flammability limit-upper%</b>	Not applicable	<b>VOC (weight %)</b>	0 %
<b>Oxidizing properties</b>	Not applicable	<b>Percent volatile</b>	Not applicable

**9.2 Other Information**

No relevant additional information available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2 Chemical stability**

Material is stable under normal conditions.

<b>10.3 Possibility of hazardous reactions</b>	Hazardous polymerization does not occur under normal conditions.
<b>10.4 Conditions to avoid</b>	Not specified
<b>10.5 Incompatible materials</b>	Strong oxidizers
<b>10.6 Hazardous decompositions products</b>	Not applicable

**SECTION 11: TOXICOLOGICAL INFORMATION****General information on likely routes of exposure**

Ingestion:	May cause discomfort if swallowed.
Inhalation:	Inhalation of dust may cause respiratory irritation.
Skin contact:	Dust may irritate skin. Use of this product as intended does not result in exposure to dust.
Eye contact:	Dust may irritate eyes. Use of this product as intended does not result in exposure to dust.
Symptoms:	Exposure to dust may cause irritation of eyes, nose, throat and mucous membranes. Prolonged contact with skin may cause irritation.

**11.1 Information on toxicological effects**

Acute Toxicity:	No data were identified for this product.
Serious Eye Damage/Irritation:	No data were identified for this product.
Skin corrosion/Irritation:	No data were identified for this product.
Respiratory/Skin Sensitization:	No data were identified for this product.
Germ Cell Mutagenicity:	No data were identified for this product.
Carcinogenicity:	No data were identified for this product.
Reproductive Toxicity:	No data were identified for this product.
Developmental Effects:	No data were identified for this product.
STOT – Single Exposure:	No data were identified for this product.
STOT – Repeated Exposure:	This product contains respirable dusts. Prolonged inhalation of insoluble, respirable (less than 10 micron) dusts can lead to pulmonary damage. Use standard hygienic practices to minimize exposure to dusts that may form.
Aspiration Hazard:	Not relevant based on physical form of the product.

**Conclusion/Summary** This product is not expected to produce toxic effects.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity / Aquatic ecotoxicity</b>	No data were identified for this product.
<b>12.2 Persistence and degradability</b>	Product is not biodegradable with low solubility in water and is not expected to decompose in the environment.
<b>12.3 Bioaccumulative potential</b>	Product is not biodegradable with low solubility in water and is not expected to accumulate in the environment.
<b>12.4 Mobility</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	Not a PBT or vPvB material
<b>12.6 Other adverse effects</b>	This product is not classified as hazardous to the environment.
<b>Conclusion/Summary</b>	Ecotoxicity data demonstrates that this product is non-toxic in the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Residual waste:	Dispose of in accordance with all applicable regulations.
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Disposal methods/information:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local, regional, national, international regulations.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**SECTION 14: TRANSPORT INFORMATION**

<b>14.1 UN Number</b>	Not applicable, not regulated as hazardous for transport.
<b>14.2 UN proper shipping name</b>	Not applicable, not regulated as hazardous for transport.
<b>14.3 Transport hazard class(es)</b>	Not applicable, not regulated as hazardous for transport.

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<b>14.4 Packing group</b>	Not applicable, not regulated as hazardous for transport.
<b>14.5 Environmental hazards</b>	Not applicable, not regulated as hazardous for transport.
<b>14.6 Special precautions for user</b>	Not applicable, not regulated as hazardous for transport.
<b>14.7 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code</b>	Not applicable, not regulated as hazardous for transport.

The transport regulation may vary based on the country of use. Check for the appropriate regulations in the country of transport or usage of this product.

<b><u>SECTION 15: REGULATORY INFORMATION</u></b>
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****USA Federal Regulations**

29 CFR 1910.1200 Hazard Communication Standard (HCS):	Not hazardous
TSCA - U.S. Inventory (TSCA 8b):	Exempt/Compliant
SARA Title III – Section 302, Extremely Hazardous Substances (EHS):	Not listed
CERCLA - Hazardous substances:	Not listed

**Release of CERCLA hazardous substances in excess of any reportable quantity threshold to the environment requires notification to the National Response Center (+1-800-424-8802 or +1-202-267-2675).**

**SARA Title III – 311/312, Hazard Classes:**

Fire / Flammability	No
Reactivity	No
Release of Pressure	No
Acute Health Hazard	No
Chronic Health Hazard	No

**SARA 313 – Toxic Chemicals:** Not listed

**USA State Regulations**

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under any State Regulations.

**Other Regulations**

None specified



**SECTION 16: OTHER INFORMATION****Label Requirements**

None

**List of abbreviations**

CAS	Chemical Abstract Service
EC50/90	Effective Concentration (median / 90 <sup>th</sup> percentile)
LC50/90	Lethal Concentration (median / 90 <sup>th</sup> percentile)
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and Very Bioaccumulative

**References**

ChemAdvisor List of Lists (LOLI)  
IARC Monographs. Overall Evaluation of Carcinogenicity  
IUCLID DATA Set

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details refer to Sections 9, 11 and 12.

**Training information**

Follow training instructions when handling this material.

**SDS Revisions**

SDS prepared on 6 September 2018.

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.