

## **SAFETY DATA SHEET**

Product Identifier	
Product Name	FASTCORE ™
Product Code	WSC 1030
	bstance or mixture and uses advised against
ecommended use	Water soluble material for forming molds and cores.
Details of the supplier of the safe	
1anufacturer	Advanced Ceramics Manufacturing, LLC.
	7800 South Nogales Highway Tucson, AZ 85756
elephone (General)	520.547.0850
mergency Telephone Number	
	800.554.9964 - Hazardous Materials Support Center
	800.424.9300 - CHEMTREC (Spill related emergencies)
SECTION 2 — HAZARD(S)	IDENTIFICATION
Inited States (US)	
according to OSHA 29 CFR 1910.1200	HCS
Classification of the substance or	mixture
OSHA HCS 2012	Fastcore™ has no known hazardous properties.
	Skin Irritation 2 - H315
	The formula is proprietary information and is the property of Advanced Ceramics Manufacturing.
abel Components	
aber components	The product does not require a danger label.
Other Dangers	The product does not require a danger label.
	Eye Contact – Direct contact may cause irritation.
	Skin Contact – Direct contact may cause irritation.
	Inhalation – When machining in the cured state, repeated exposure to dust may cause delayed lung injury.
	Ingestion – Direct contact may cause irritation.
	Ingestion – Direct contact may cause irritation.  Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impair pulmonary functions.
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	Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impair pulmonary functions.  ION/INFORMATION ON INGREDIENTS
SECTION 3 — COMPOSITI	Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impair pulmonary functions.
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themical Characterization lixtures laterials: SECTION 4 — FIRST-AID II ontact with Eyes	Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impair pulmonary functions.  ION/INFORMATION ON INGREDIENTS  Mixture (water-soluble core material)  The product does not contain substances classified as dangerous in accordance to OSHA 29 CFR 1910.1200 HCS  The formula is proprietary information and is the property of Advanced Ceramics Manufacturing.  MEASURES
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Personal Precautions	Ensure an adequate ventilation
Emergency Procedures	Ensure an adequate ventilation
Environmental Precautions	
Methods and material for containment	No specific requirement
methods and material for containment	and cleaning up  Dry material can be shoveled up, liquid material can be removed with a vacuum truck. Neutralize remaining trace
Containment/Clean-up Measures	with any dilute inorganic acid (hydrochloride, sulfuric or acetic acid). Flush spill area with water followed up by liberal covering of sodium carbonate.
SECTION 7 — HANDLING AND	STORAGE
Precautions to be taken in Handling and	1 Storing
-landling	Keep container closed to avoid dry out.
Conditions for safe storage, including a	
Storage	Store in tightly closed containers in a dry, cool and well-ventilated place. Keep away from sources of heat, sparks and flame.
Specific End Use	
	Not indicated.
	TROLS/PERSONAL PROTECTION
Control Parameters	TIV TIVA
PNOS 	TLV-TWA <sub>ACGIH</sub> = No exposure limit value known.
	TLV-TWA <sub>ACGIH</sub> = No exposure limit value known.
Exposure Control	
Engineering Measures/Controls	Adequate ventilation systems as needed to control concentrations of airborne contaminates below applicable exposure limit values
Personal Protective Equipment Pictograms	
Respiratory Protection	Use of a Class NIOSH N95 respirator where dust is generated is recommended. Follow the OSHA respirator regulations found in 29 CFR 1910.134.
Eye Protection	Chemical resistant safety glasses or goggles as a minimum.
Skin Protection	Rubber gloves should be worn to prevent excessive or repeated skin contact.
Other Clothing & Equipment	Work clothing or coveralls to minimize skin contact.
General Industrial Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not eat, drink or smoke during use. Keep away from food and feedstuffs. Do not breathe dust. Avoid creating dust.
Ventilation	Maintain positive ventilation.
Environmental Exposure Controls	Follow best practice for site management and disposal of waste.
SECTION 9 — PHYSICAL AND	
Information on Physical and Chemical F	Properties
Appearance:	Gray to light brown solid
Smell:	no detectable odor
Odor threshold:	not available
oH:	not available
Melting point / freezing point:	not available
Initial boiling point and boiling range:	not available
Flash point:	noncombustible
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper / lower flammability or explosive limits:	not available
Vapor pressure:	not available
Vapor density:	not available
Relative density:	0.53 g/cc
Solubility:	soluble in water
Partition coefficient n-octanol/water:	not available
Auto-ignition temperature:	not applicable
Decomposition temperature:	not available
Viscosity:	not applicable
Explosive properties: Oxidising properties:	not applicable  not applicable
SECTION 10 — STABILITY AND	
	The product is not reactive under normal conditions of use and storage. When heated to decomposition oxides of
Reactivity	sulfur will be released.
	Sulful Will be released.

The product is stable under normal conditions of use and storage.

Chemical stability

Possiblity of hazardous reactions	Refer to Reactivity
Conditions to avoid	Not known
ncompatible materials	Not known
lazardous decomposition products	Not known
SCA Listing	All ingredients are on the TSCA inventory, or exempt.
SECTION 11 — TOXICOLOGY II	
	No toxicological effects acute and / or chronic known as a result of exposure to the product. Contact with eyes
nformation on toxicological effects	may cause mechanical irritation. The frequent and prolonged contact with skin may cause irritation and defatting
ECTION 12 - ECOLOGICAL INFORMATION	
oxicity	No effect eco-toxicological acute and / or chronic known as a result of exposure to the product.
ersistence and degradability	Information not available.
ioaccumulative potential	Information not available.
lobility in Soil	Information not available.
Other adverse effects Other Information	Information not available.  Information not available.
ECTION 13 - DISPOSAL CONSIDERATIONS	Tillottiauoti ilot avaliable.
Vaste treatment methods	Disposal must be made according to national or local law. These provisions shall also apply to contaminated containers. It is therefore recommended to make contact with the authorities in charge or approved specialist companies that can give you guidance on how to prepare for disposal. Appropirate disposal could be combustion recycling, disposal site.
SECTION 14 - TRANSPORT INFORMATION	
	The product is not classified as dangerous according to the provisions of existing legislation on the transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).
JN Number	Not applicable.
IN Proper shipping name	Not applicable.
ransport hazard class(es)	Not applicable.
acking group	Not applicable.
nvironmental hazards	Not applicable.
pecial precautions for user	Not applicable.
ransport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
afety, health and environmental regulations / legi OSHA 29 CFR 1910.1200 HCS - Consolidated Saf	ety at the workplace
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