

SAFETY DATA SHEET

SECTION 1 — IDENTIFICATI Product Identifier	
Product Name	FASTCORE ™
Product Code	WSC 1030
	tance or mixture and uses advised against
ecommended use	Water soluble material for forming molds and cores.
Details of the supplier of the safety	data sheet
lanufacturer	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
SECTION 2 — HAZARD(S) ID	800.424.9300 - CHEMTREC (Spill related emergencies)
Inited States (US)	
ccording to OSHA 29 CFR 1910.1200 H	
Classification of the substance or m	ixture
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	
	The product does not require a danger label.
Other Dangers	
	Eye Contact – Direct contact may cause irritation.
	Eye Contact – Direct contact may cause irritation. Skin Contact – Direct contact may cause irritation.
	Skin 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.
SECTION 3 — COMPOSITIO	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. Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impaire
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Chemical Characterization	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. Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impaired pulmonary functions. N/INFORMATION ON INGREDIENTS
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Chemical Characterization lixtures faterials: SECTION 4 — FIRST-AID ME contact with Eyes contact with Skin	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. Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impaired pulmonary functions. N/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.
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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
Containment/Clean-up Measures	Dry material can be shoveled up, liquid material can be removed with a vacuum truck. Neutralize remaining traces with any dilute inorganic acid (hydrochloride, sulfuric or acetic acid). Flush spill area with water followed up by
SECTION 7 — HANDLING AND	liberal covering of sodium carbonate.
Precautions to be taken in Handling and	
Handling	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	
PNOS	TLV-TWA _{ACGIH} = No exposure limit value known.
	TLV-TWA _{ACGIH} = 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 I	Properties
Appearance:	Gray to light brown solid
Smell:	no detectable odor
Odor threshold:	not available
pH:	not available
Melting point / freezing point:	not available
Initial boiling point and boiling range:	not available
Flash point:	noncombustible
Evaporation rate:	noncombusuble 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:	not applicable
Oxidising properties:	not applicable
SECTION 10 - STABILITY AND	D REACTIVITY
Reactivity	The product is not reactive under normal conditions of use and storage. When heated to decomposition oxides of sulfur will be released.
Chemical stability	The product is stable under normal conditions of use and storage.
Chemical stability	היה איטער וא אנשור אווידיי ווידיי נטווענייזא איז איז איז איז איז איז איז איז איז

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	· · · ·
e	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 defattin
SECTION 12 - ECOLOGICAL INFORMATION	
Foxicity	No effect eco-toxicological acute and / or chronic known as a result of exposure to the product.
Persistence and degradability	Information not available. Information not available.
Bioaccumulative potential	
1obility in Soil Dther adverse effects	Information not available. Information not available.
Other Information	Information not available.
ECTION 13 - DISPOSAL CONSIDERATIONS	
BECTION 13 - DISPOSAL CONSIDERATIONS	
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. Appropriate disposal could be combustion
	recycling, disposal site.
ECTION 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.
JN Proper shipping name	Not applicable.
Fransport hazard class(es)	Not applicable.
Packing group	Not applicable.
Environmental hazards	Not applicable.
special precautions for user	Not applicable.
ransport in bulk according to Annex II of	Not applicable.
SECTION 15 - REGULATORY INFORMATION	
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MARPOL 73/78 and the IBC Code SECTION 15 - REGULATORY INFORMATION Safety, health and environmental regulations / legi • OSHA 29 CFR 1910.1200 HCS - Consolidated Saf • OSHA 29 CFR 1910.120 HCS - Hazardous Waste SECTION 16 — OTHER INFORM Last Revision Date Preparation Date Key literature references and sources for data:	islation specific for the substance or mixture fety at the workplace Operations and Emergency Response IATION 12/12/2023
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