

## SAFETY DATA SHEET

### SECTION 1 — IDENTIFICATION

**Product Identifier**

**Product Name** AQUAPOUR™  
**Product Code** 4015

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

Recommended use Water soluble material for forming molds and cores.

**Details of the supplier of the safety data sheet**

**Manufacturer** Advanced Ceramics Manufacturing, LLC.  
7800 South Nogales Highway  
Tucson, AZ 85756

Telephone (General) 520.547.0850

**Emergency Telephone Number**

800.554.9964 - Hazardous Materials Support Center  
800.424.9300 - CHEMTREC (Spill related emergencies)

### SECTION 2 — HAZARD(S) IDENTIFICATION

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**Classification of the substance or mixture**

OSHA HCS 2012 AquaPour™ has no known hazardous properties.  
Skin Irritation 2 - H315  
The formula is proprietary information and is the property of Advanced Ceramics Manufacturing.

**Label Components**

The product does not require a danger label.

**Other Dangers**

OSHA HCS 2012



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.

Signs & Symptoms of Exposure to Airborne Dust – May result in cough, dyspnea, wheezing, or impaired pulmonary functions.

### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Mixture (water-soluble core material)

Mixtures

The product does not contain substances classified as dangerous in accordance to OSHA 29 CFR 1910.1200 HCS and CE Regulation n° 1272/2008 (CLP).

**Materials:**

	Identifiers	WT%	TLV (mg/m <sup>3</sup> )	PEL (mg/m <sup>3</sup> )
Water Soluble Binder		1%-30%	NE	NE
Plaster of Paris	26499-65-0	1%-50%	10	15 ( T ) / 5 ( R )
Ceramic Microspheres	66402-68-4	10%-90%	10 ( I ) / 3 ( R )	15 ( T ) / 5 ( R )
	( T ) - Total	( R ) - Respirable	( I ) - Inhalable	( NE ) - Not Established

### SECTION 4 — FIRST-AID MEASURES

Contact with Eyes Flush eyes with running water for 15 minutes — lift upper and lower eyelids.

Contact with Skin Wash skin thoroughly with mild soap and water.

Inhalation Move the injured person to fresh air. If not breathing, initiate pulmonary resuscitation. Get medical attention.

Ingestion Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

Refer to section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

Refer to section 4.

### SECTION 5 — FIRE-FIGHTING MEASURES

**Extinguishing Media**

Suitable Extinguishing Media Use fire nature appropriate extinguishing media. For example: foam, carbon dioxide, extinguishing powder

Unsuitable Extinguishing Media Avoid the use of streaming water, as this may spread the fire.

**Special hazards arising from the substance or mixture**

Unusual Fire and Explosion Hazards The product is not flammable.

Advice for Firefighters

Always wear full fire prevention gear: hardhat with visor, fireproof clothing, work gloves and a respirator.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions	Ensure an adequate ventilation
Emergency Procedures	Ensure an adequate ventilation

### Environmental Precautions

No specific requirement

## Methods and material for containment and cleaning up

Containment/Clean-up Measures	Take up by mechanical means and pour it into a container properly labeled. Dispose of in accordance with local and national legislation.
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## SECTION 7 — HANDLING AND STORAGE

### Precautions to be taken in Handling and Storing

Handling	Keep container closed to avoid dry out.
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### Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed containers in a dry, cool and well-ventilated place. Keep away from sources of heat, sparks and flame.
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### Specific End Use

Not indicated.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

PNOS	TLV-TWA <sub>ACGIH</sub> = No exposure limit value known. TLV-TWA <sub>ACGIH</sub> = No exposure limit value known.
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### Exposure Control

Engineering Measures/Controls	Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values
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### 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 CHEMICAL PROPERTIES

### Information on Physical and Chemical Properties

Appearance:	Gray powder
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:	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:	0.67 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 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.
Possibility of hazardous reactions	Refer to Reactivity
Conditions to avoid	Not known
Incompatible materials	Not known
Hazardous decomposition products	Not known
TSCA Listing	All ingredients are on the TSCA inventory, or exempt.

## SECTION 11 — TOXICOLOGY INFORMATION

Information on toxicological effects No toxicological effects acute and / or chronic known as a result of exposure to the product. Contact with eyes may cause mechanical irritation. The frequent and prolonged contact with skin may cause irritation and defatting.

## SECTION 12 - ECOLOGICAL INFORMATION

Toxicity No effect eco-toxicological acute and / or chronic known as a result of exposure to the product.  
Persistence and degradability Information not available.  
Bioaccumulative potential Information not available.  
Mobility in Soil Information not available.  
Other adverse effects Information not available.  
Other Information Information not available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste 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.

## 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).  
UN Number Not applicable.  
UN Proper shipping name Not applicable.  
Transport hazard class(es) Not applicable.  
Packing group Not applicable.  
Environmental hazards Not applicable.  
Special precautions for user Not applicable.  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15 - REGULATORY INFORMATION

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

- OSHA 29 CFR 1910.1200 HCS - Consolidated Safety at the workplace
- OSHA 29 CFR 1910.120 HCS - Hazardous Waste Operations and Emergency Response

## SECTION 16 — OTHER INFORMATION

Last Revision Date 11/15/2020

Preparation Date 11/15/2017

Key literature references and sources for data:

- 29 CFR 1910.1200(f) and Appendix C of 29 CFR 1910.1200 (and subsequent amendments and adjustments)
- OSHA GHS (and subsequent amendments and adjustments)
- OSHA Hazard Communication Standard (HCS) (and subsequent amendments and adjustments)
- 1910 Subpart G - Occupational Health and Environmental Control (and subsequent amendments and adjustments)
- Safety data sheet of the supplier of the product

### Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labeling and Packaging  
EINECS: European Inventory of Existing Chemical Substances  
GHS: Globally Harmonized System  
HCS: Hazard Communication Standard  
IATA: International Air Transport Association  
IMDG Code: International Maritime Code for Dangerous Goods  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative, Toxic  
PEL: Permissible Exposure Limit  
PNOS: Particles Not Otherwise Specified  
REACH: Registration, Evaluation, Authorization and Restriction of Chemicals  
RID: Regulation on the Inland transport of Dangerous goods by rail  
TLV: Threshold Limit Value  
TSCA: Toxic Substances Control Act  
TWA: Time-Weighted Average  
vPvB: very Persistent, very Bioaccumulative

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