

SAFETY DATA SHEET

Product Identifier	FION				
Product Name	Aqua-Tool-Be	ond™			
Product Code	Not applicable				
Relevant identified uses of the subs					
lecommended use		material for forming mole	ds and cores.		
Details of the supplier of the safety		-			
lanufacturer		mics Manufacturing, LLC	•		
	7800 South No				
	Tucson, AZ 85	/56			
elephone (General)	520.547.0850				
mergency Telephone Number	900 EE4 0064	- Hazardous Materials Su	innart Cantar		
		- CHEMTREC (Spill relate	A.A		
SECTION 2 — HAZARD(S)		CHEIMINEC (Spin relate	d emergencies)		
·····					
Jnited States (US)					
Classification of the substance or m OSHA HCS 2012	nxture				
JSHA HCS 2012	Aqua-Tool-Bon	nd™ has up to 90% Isopr	opyl Alcohol.		
	Flammable Liqu				
	Skin Irritation 2				
	The formula is	proprietary information a	and is the property of A	dvanced Ceramics Manufacturing.	
_abel Components					
OSHA HCS 2012					
		sopropyi Alcohol sovret kyst styrioss status the syster's			
			<u>*</u> >		
			/		
Other Dangers					
	•••••••••••••••••••••••••••••••••••••••	Direct contact may cause			
	Skin Contact –	Direct contact may cause	e irritation.		
	Inhalation – W	hen machining in the cur	ed state, repeated expo	sure to dust may cause delayed lung inju	ry.
	Transtian F		aa iwikatiaa		
		Direct contact may cau			
			Airborne Dust – May	esult in cough, dyspnea, wheezing, o	r
	·····	nonary functions.			
SECTION 3 — COMPOSITIO	N/INFORMATION	ON INGREDIENTS	5		
Chemical Characterization	Mixture (water	-soluble core material)			
1ixtures					
laterials:				CAS Number	
	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER	
Non-toxic polymer (Trade Secret)	1%-30%	NE	NE		
Ion-toxic polymer (Trade Secret)		·····	·····	67-63-0	
Ion-toxic polymer (Trade Secret)	1%-30%	NE	NE		
lon-toxic polymer (Trade Secret) sopropyl Alcohol	1%-30% 10%-90% (T) - Total	NE 400 ppm	NE 1225	67-63-0	
Non-toxic polymer (Trade Secret)	1%-30% 10%-90% (T) - Total	NE 400 ppm (R) - Respirable	NE 1225 (I) - Inhalable	67-63-0 (NE) - Not Established	r for at
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This product is flammable and may be combustible at high temperatures. Vapor may travel considerable distance to source of ignition and flash back. CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME. Hydrogen peroxide sharply reduces the autoignition temperature of isopropyl alcohol. After a dely isopropyl alcohol ignites on contact with dioxgenyl tetrafluorborate, chromium trioxide, and potassium tert-butoxide. When heated to decomposotion it emits acrid smoke and fumes. Secondary alcohols are readily autooxidized in contact with oxygen or air, forming ketones and hydrogen peroxide. It can become potentially explosive. It reacts with oxygen to form dangerously unstable peroxides which can concentrate and explode during distillation or evaporation. The presence of 2-butanone increases the reaction rate for peroxide formation. Explosive in the form of vapor when exposed to heat or flame. May form explosive mixtures with air. Isopropyl alcohol + phosgene forms isopropyl alcohol recapable of detonation by shock or heat. Barium perchlorate + isopropyl alcohol gives the highly explosive alkyl perchlorates. It forms explosive mixtures with trinitormethane and hydrogen peroxides. It produces a violent explosive reaction when heated with aluminum isopropoxide + crotonaldehyde. Mixtures of isopropyl alcohol + nitroform are explosive

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 equ	ipment and emergency procedures		
Personal Precautions	Ensure an adequate ventilation		
Emergency Procedures	Ensure an adequate ventilation		
Environmental Precautions			
	No specific requirement		
Methods and material for containme			
Containment/Clean-up Measures	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of according to local and regional authority requirements. For large spills, keep away from hea and sources of ignition. Stop the leak if there is no risk. Absorb with dry earth, sand, or other non-combustible material. Prevent entry into sewers, basements, or confined areas. Be careful that the product is not present at a concentration level above TLV		
SECTION 7 — HANDLING AN	ID STORAGE		
Precautions to be taken in Handling	and Storing		
Handling	Keep away from heat and sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes and wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately. Keep away from incompatibles such as oxidizing agents, acids		
Conditions for safe storage, including	g 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.		
Specific End Use			
	Not indicated.		
SECTION 8 — EXPOSURE CO	DNTROLS/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	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work- station location.		
Personal Protective Equipment Pictograms			
Respiratory Protection	Use of a Class NIOSH N95 respirator where dust is generated is recommended.		
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 af 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.		

Unusual Fire and Explosion Hazards

SECTION 9 — PHYSICAL AND	CHEMICAL PROPERTIES
Information on Physical and Chemical I	Properties
Appearance:	Clear liquid
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:	0.819 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 ANI	
Reactivity	Reacts violently with hydrogen + palladium combination, nitroform, oleum, COCl2, aluminum triisopropoxide, oxidants. Incompatible with acetaldehyde, chlorine, ethylene oxide, isocyanates, acids, alkaline earth, alkali metals, caustics, amines, crotonaldehyde, phogene, ammonia. Asopropyl alcohol reacts with metallic aluminum at high temperatures. Isopropyl alcohol attacks some plastics, rubber, and coatings. Vigorous reaction with sodium dichromate + sulfuric acid.
Chemical stability	The product is stable under normal conditions of use and storage.
Possiblity of hazardous reactions	Refer to Reactivity
Conditions to avoid	Refer to reactivity. Hygroscopic; keep container tightly closed
Incompatible materials	Refer to Reactivity.
Hazardous decomposition products	Not known
TSCA Listing	All ingredients are on the TSCA inventory, or exempt.
SECTION 11 - TOXICOLOGY I	
Information on toxicological effects	Acute potential health effects: Skin: may cause mild skin irritation, and sensitization. Eyes: can cause eye irritaiton. Inhalation: breathing in small amounts of this material during normal handling is not likely to cause harmful effects. However, breathing large amounts may be harmful and may affect the respiratory system and mucous membranes (irritation), behavior and brain (cns depression - headache, dizziness, drowsiness, stupor, incoordination, unconciousness, coma and possible death), peripheral nerve and senstation, blood, urinary system, and liver. Ingestion: swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. Swallowing large amounts may cause gastrointestinal tract irritation, with nausea, vomiting and diarrhea, abdominal pain. It also may affect the urinary sttem, cardiovascular system, sense organs, behavior or cns (somnolence, generally depressed activity, irritability, headaches, dizziness, drowsiness), liver, and respiratory system (breathing difficulty). Chronic potential heath effects: may cause defatting of the skin and dermatitis and allergic reaction. May cause adverse reproductive effects based on animal data (studies)
SECTION 12 - ECOLOGICAL INFORMATION	
Toxicity	Isopropyl alcohol Ecotoxicity in water (LC50): 100000 mg/l 96 hours [Fathead Minnow]. 64000 mg/l 96 hours
Persistence and degradability	[Fathead Minnow] Information not available.
Bioaccumulative potential	Information not available.
Mobility in Soil	Information not available.

Other Information Information not available. SECTION 13 - DISPOSAL CONSIDERATIONS 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 Waste treatment methods companies that can give you guidance on how to prepare for disposal. Appropirate disposal could be combustion, recycling, disposal site. SECTION 14 - TRANSPORT INFORMATION U.S.A. DOT - Not regulated. General - Non-hazardous; non-restricted. 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). Not applicable. UN Number UN Proper shipping name Not applicable. Transport hazard class(es) Not applicable. Not applicable. Packing group Not applicable. Environmental hazards Special precautions for user Not applicable.

Information not available.

Other adverse effects

Not applicable.

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

 \cdot 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	12/12/2023			
Preparation Date	8/2/2016			
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 - Occupation Health and Environment 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			
CLP:	Classification, Labeling and Packaging			
EINECS:	European Inventory of Existing Chemical Substances			
IATA:	International Air Transport Association			
IMDG Code:	International Maritime Code for Dangerous Goods			
PBT:	Persistent, Bioaccumulative, Toxic			
PEL:	Permissible Exposure Limit			
PNOS:	Particles Not Otherwise Specified			
RCRA:	Resource Conservation and Recovery Act			
REACH:	Registration, Evaluation, Authorization and Restriction of Chemicals			
RID:	Regulation on the Inland transport of Dangerous goods by rail			
TLV:	Threshold Limit Value			
TWA:	Time-Weighted Average			
vPvB:	very Persistent, very Bioaccumulative			
	The information contained herein is believed to be accurate. However, it is provided solely for the customer's			
Disclaimer/Statement of Liability	consideration, investigation and verification. Advanced Ceramics Manufacturing hereby specifically disclaims any and all warranties, express or implied, regarding the accuracy and completeness of such information, and makes no			