SAFETY DATA SHEET



1. Identification

Product identifier Other means of identification Recommended use Recommended restrictions	Liquid Quartz None. Quartz based clear to protect metal, concrete and masonry surfaces. None known.			
Manufacturer/Importer/Supplier/Distributor information				
Supplier				
Company name	Advanced Resins			
Address	11530 Chairman Dr, Dallas, TX 75243			
Telephone Email Emergency Phone Number	972.293.4444 contact@advancedresins.com Chemtrec: 800-424-9300 (Account: CCN1217) or International: 703-527-3887 (Account: CCN1217)			

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
OSHA defined hazards	Not classified.	

Label elements



Hazard statement Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Precautionary statement Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If
PreventionKeep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.ResponseIf on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.ResponseIf on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use Foam. Dry chemical powder. Carbon dioxide (CO2). to extinguish.
Storage Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise None known. classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

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Chemical name	CAS number	%
t-Butyl Acetate	540-88-5	60 - 67



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Polymer A-1	Proprietary	12 - 18
Polymer A-3	Proprietary	9 - 12
Ethyl Alcohol	64-17-5	6 - 9
Polymer A-2	Proprietary	6 - 9

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

4. First-aid measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.	
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge. Contact with strong oxidizers may cause fire. During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Containers may explode when heated.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	Highly flammable liquid and vapor.	
6. Accidental release meas	sures	
Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all	

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface.	
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.	
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.



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Environmental precautions	Do not release into the environment. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Do not store at temperatures above 80° F. Protect from moisture. Keep away from heat, sparks and open flame. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).	
9 Experience controls/personal protection		

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
t-Butyl Acetate (CAS 540-88-5)	PEL	950 mg/m3
		200 ppm
US. ACGIH Threshold Limit		
Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
t-Butyl Acetate (CAS 540-88-5)	STEL	150 ppm
	TWA	50 ppm
US. NIOSH: Pocket Guide to	Chemical Hazards	
Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
t-Butyl Acetate (CAS 540-88-5)	TWA	950 mg/m3
		200 ppm
logical limit values	No biological exposure limits noted for the ingredient(s).	
propriate engineering trols	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.	
vidual protection measures,	such as personal protective equip	
Eye/face protection	Do not wear contact lenses. Wear safety glasses with side shields (or goggles). Face shield is recommended.	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.	
Skin protection		
Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recomm		nt clothing. Use of an impervious apron is recommended.



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Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Check with respiratory protective equipment suppliers.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. 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.

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Slightly milky liquid.
Color	Clear to amber.
Odor	Mild Fruity.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	Not available.
range	
Flash point	< 77.0 °F (< 25.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.30 - 8.70 lb/gal (77°F/25°C)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	< 0.83 lb/gal
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Keep away from moisture. Protect against direct sunlight. Contact with incompatible materials.

Contact with strong oxidizers may cause fire.

Possibility of hazardous

reactions



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		Powered by Prer	
Incompatible materials	Oxidizers. Alkalis. Acids. Aliphatic amines. Nitrates. Water. Carbon oxides, Nitrogen oxides		
Hazardous decomposition products			
11. Toxicological inform	nation		
Information on likely routes of	of exposure		
Inhalation	Prolonged inhalation may be harmfu	I.	
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye irritation.		
Ingestion	May cause discomfort if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.		
Information on toxicological	effects		
Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Ethyl Alcohol (CAS 64-17-5)			
<u>Acute</u> Inhalation Vapor LC50	Mouse	39 g/m3, 4 Hours	
Oral			
LD50	Rat	7000 - 11000 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		

Respiratory or skin sensitization

Respiratory or skin sensitization	I
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

 Reproductive toxicity
 This product is not expected to cause reproductive or developmental effects.

 Specific target organ toxicity - single exposure
 Not classified.

 Specific target organ toxicity - repeated exposure
 Not classified.

Aspiration hazardNot an aspiration hazard.Chronic effectsProlonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



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			Powered by Preme		
Components		Species	Test Results		
Ethyl Alcohol (CAS 64-17-5)					
Aquatic					
Acute					
Crustacea	LC50	Ceriodaphnia dubia	5012 mg/l, 48 hours		
		Daphnia magna	454 mg/l, 11 days		
Fish	LC50	Pimephales promelas	13480 mg/l, 96 hours		
Chronic			-		
	NOEC	Ceriodaphnia dubia	9.6 mg/l, 10 days		
Persistence and degradability	No data is	available on the degradability of any	y ingredients in the mixture.		
Bioaccumulative potential					
Partition coefficient n-octan	ol / water (l	og Kow)			
Ethyl Alcohol (CAS 64-17-5)		-0.31			
t-Butyl Acetate (CAS 540-88-	5)	1.76			
Mobility in soil	The produ	ct is insoluble in water.			
Other adverse effects	The produ potential.	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
13. Disposal consideration	ns				
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the				
	containers	. If discarded, this product is conside	oved incinerator. Do not incinerate sealed ered a RCRA ignitable waste, D001. Dispose of gional/national/international regulations.		
Local disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.			
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F				
	The waste disposal c		ion between the user, the producer and the waste		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.				
14. Transport information					
DOT					
UN number	UN1139				
UN proper shipping name		olution (includes surface treatments of whicle undercoating, drum or barrel lin	or coatings used for industrial or other purposes ning)		
Transport hazard class(es)		0,	0,		
Class	3				
Subsidiary risk	-				
Label(s)	3	3			
Packing group	II	II			
· ·		ty instructions, SDS and emergency	procedures before handling.		
Special provisions		Г4, ТР1, ТР8			
Packaging exceptions	150				
Packaging non bulk		202			
Deekeging bulk	242				

Coating solution (includes surface treatments or coatings used for industrial or other purposes

such as vehicle undercoating, drum or barrel lining)

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No.

UN1139

Packaging bulk

UN proper shipping name

Transport hazard class(es)

Subsidiary risk

Environmental hazards

UN number

Class

Label(s)

Packing group

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Special precautions for user	Read safety instructions, SL	DS and emergency procedures be	store handling.
UN number	UN1139		
UN proper shipping name			gs used for industrial purposes such
Transport hazard class(es)	-		
Class	3		
Subsidiary risk Packing group	-		
Environmental hazards			
Marine pollutant	No.		
EmS	F-E, <u>S-E</u>		
Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Read safety instructions, SE Not established.	DS and emergency procedures be	fore handling.
15. Regulatory information			
US federal regulations	This product is a "Hazardou Standard, 29 CFR 1910.120	s Chemical" as defined by the OS 00.	SHA Hazard Communication
TSCA Section 12(b) Export N	lotification (40 CFR 707, Su	bpt. D)	
Not regulated.			
CERCLA Hazardous Substar		Listad	
t-Butyl Acetate (CAS 540- SARA 304 Emergency releas		Listed.	
Not regulated. OSHA Specifically Regulated Not regulated.	l Substances (29 CFR 1910	.1001-1053)	
Superfund Amendments and Rea SARA 302 Extremely hazard	-	ARA)	
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard	Flammable (gases, aerosols	s, liquids, or solids)	
categories	Skin corrosion or irritation Serious eve damage or eve	irritation	
SARA 313 (TRI reporting) Not regulated.	Schous eye damage of eye	induon	
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutar	nts (HAPs) List	
Not regulated.			
Clean Air Act (CAA) Section	112(r) Accidental Release F	Prevention (40 CFR 68.130)	
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
FEMA Priority Substanc	es Respiratory Health and S	Safety in the Flavor Manufactur	ing Workplace
Ethyl Alcohol (CAS 64	4-17-5)	Low priority	
US state regulations			
US. Massachusetts RTK - Su	bstance List		
Ethyl Alcohol (CAS 64-17-			
t-Butyl Acetate (CAS 540- US. New Jersey Worker and		Act	
Ethyl Alcohol (CAS 64-17-			
t-Butyl Acetate (CAS 540-			
			Powered by SDS US
Liquid Quartz 943946 Version #: 01 Revision da	te: - Issue date: 18-May-2018		Powered by SDS US



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US. Pennsylvania Worker and Community Right-to-Know Law

Ethyl Alcohol (CAS 64-17-5) t-Butyl Acetate (CAS 540-88-5)

US. Rhode Island RTK

Ethyl Alcohol (CAS 64-17-5) t-Butyl Acetate (CAS 540-88-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

Ethyl Alcohol (CAS 64-17-5)

Listed: October 1, 1987

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*		
Australia	Australian Inventory of Chemical Substances (AICS)	Yes		
Canada	Domestic Substances List (DSL)	Yes		
Canada	Non-Domestic Substances List (NDSL)	No		
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes		
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes		
Europe	European List of Notified Chemical Substances (ELINCS)	Yes		
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes		
Korea	Existing Chemicals List (ECL)	Yes		
New Zealand	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes		
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)				

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

NFPA ratings	
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 1
Version #	01
Revision date	-
Issue date	18-May-2018

Disclaimer

Advanced Resins cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

