

**1. Identification**

**Product identifier** AQUATAC™ 9027

**Other means of identification**

**SDS number** 8713

**Product Code** 200000000252

**Recommended use** Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys).

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company** Arizona Chemical Company LLC

**Address** Building 100  
4600 Touchton Road East, Suite 1200

**City/State** Jacksonville, FL

**Zip** 32246

**Country** USA

**Phone Number** 904-928-8700

**Alternate Phone Number** 800-526-5294

**Fax Number** 904-928-8780

**Emergency-US** CHEMTREC 800-424-9300

**2. Hazard(s) identification**

**Physical hazards** Not classified.

**Health hazards**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Sensitization, skin	Category 1B
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

**Precautionary statement**

**Prevention** Avoid breathing mist or vapor. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response** If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Modified Rosin Ester		Proprietary	60 - <70
Rosin Ester		Proprietary	20 - <30
Additive		Proprietary	5 - <10
Water			1 - <3

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
<b>Eye contact</b>	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 immediately.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	If you feel unwell, seek medical advice (show the label where possible). 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

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Wear suitable protective equipment. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: 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.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues.

**Conditions for safe storage, including any incompatibilities** Store locked up. Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Manufacturer recommends storing above 40 F. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

**Occupational exposure limits** This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.



**General hygiene considerations** 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. Contaminated work clothing should not be allowed out of the workplace. Eye wash fountain and emergency showers are recommended.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Dark amber.

**Odor** Mild amine

**Odor threshold** Not available.

**pH** 8 - 10

**Melting point/freezing point** 32 °F (0 °C) (water)

**Initial boiling point and boiling range** 212 °F (100 °C) (water)

**Flash point** 392.0 °F (200.0 °C) Cleveland Open Cup

**Evaporation rate** 0.3 (n-BuAc=1) (water)

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	18 mm Hg at 20°C (water)
<b>Vapor density</b>	0.6 (air=1) (water)
<b>Relative density</b>	1.04 at 25°C/25°C (water=1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Dilutable
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	160000 cP Brookfield at 30°C
<b>Other information</b>	
<b>Chemical family</b>	Resin Dispersion
<b>Density</b>	1040.00 kg/m <sup>3</sup> at 20°C
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	5 % by weight (water)
<b>Weighted solids</b>	89 - 91 %

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Strong oxidizing agents. Contact with incompatible materials.
<b>Incompatible materials</b>	This product may react with strong oxidizing agents. Peroxides. Phenols.
<b>Hazardous decomposition products</b>	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye damage.
Modified Rosin Ester	Irritation Corrosion - Eye, May cause eye irritation.; Data is for similar product. Result: Positive Species: New Zealand white rabbit Organ: Eye Test Duration: 4 hr Observation Period: 72 hr Notes: OECD 405
Rosin Ester	Irritation Corrosion - Eye, No eye irritation. Result: Negative Species: New Zealand white rabbit Organ: Eye Test Duration: 72 hr Observation Period: 7 days Notes: OECD 405
<b>Ingestion</b>	Health injuries are not known or expected under normal use.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
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### Information on toxicological effects

<b>Acute toxicity</b>	May cause respiratory irritation. May cause an allergic skin reaction.	
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Modified Rosin Ester		
<b><u>Subchronic</u></b>		
<b>Oral</b>		
NOAEL	Wistar rat	300 mg/kg/day, 8 weeks Developmental.; Data is for similar product.
NOEL	Wistar rat	1000 mg/kg/day, 8 weeks Reproductive.; Data is for similar product.
Rosin Ester		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	New Zealand white rabbit	> 2000 mg/kg, 14 days At this dose no death occurred.; OECD 402.
<b>Oral</b>		
LD50	Sprague-Dawley rat	> 2000 mg/kg, 14 days At this dose no death occurred.; OECD 425
* Estimates for product may be based on additional component data not shown.		
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Corrosivity</b>		
AQUATAC™ 9027		> 60 Corrositex, Non-corrosive per US Department of Transportation testing protocol. Result: Negative Organ: Synthetic biobarrier Observation Period: 60 min
Modified Rosin Ester		Irritation Corrosion - Skin, Mild skin irritation Result: Positive Species: New Zealand white rabbit Organ: Skin Test Duration: 4 hr Observation Period: 48 hr Notes: OECD 404
Rosin Ester		Irritation Corrosion - Skin, No skin irritation. Result: Negative Species: New Zealand white rabbit Organ: Skin Test Duration: 4 hr Observation Period: 72 hr Notes: OECD 404
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
<b>Eye Contact</b>		
Modified Rosin Ester		Irritation Corrosion - Eye, May cause eye irritation.; Data is for similar product. Result: Positive Species: New Zealand white rabbit Organ: Eye Test Duration: 4 hr Observation Period: 72 hr Notes: OECD 405
Rosin Ester		Irritation Corrosion - Eye, No eye irritation. Result: Negative Species: New Zealand white rabbit Organ: Eye Test Duration: 72 hr Observation Period: 7 days Notes: OECD 405
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	

**Skin sensitization**

Modified Rosin Ester

50 % w/w Local Lymph Node Assay - Lowest Concentration Producing Reaction, SI=4.24; May cause sensitization by skin contact.; Data is for similar product.

Result: Positive

Species: Mouse

Notes: OECD 429

Rosin Ester

Local Lymph Node Assay - Lowest Concentration Producing Reaction, Not a skin sensitizer.

Result: Negative

Species: Mouse

Organ: Skin

Notes: OECD 429

Maximisation Assay (Magnusson and Kligman), Not a skin sensitizer.

Result: Negative

Species: Guinea pig

Organ: Skin

Notes: OECD 406

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Mutagenicity**

Modified Rosin Ester

Germ Cell Mutagenicity: Ame, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Result: Negative

Species: Salmonella typhimurium

Notes: OECD 471

Rosin Ester

Germ Cell Mutagenicity: Ames, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Result: Negative

Species: Salmonella typhimurium

Notes: OECD 471

Modified Rosin Ester

Germ Cell Mutagenicity: Chromosome Abberation, Data is for similar product.

Result: Negative

Species: Human

Notes: OECD 473

Rosin Ester

Germ Cell Mutagenicity: Chromosome Abberation, This material is considered to be non-clastogenic to human lymphocytes in vitro.

Result: Negative

Species: Human

Notes: OECD 473

In vitro gene mutation study in mammalian cells

Result: Negative

Species: Mouse

Notes: OECD 476

Modified Rosin Ester

In Vitro Mammalian Cell Gene Mutation Test, No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.; Data is for similar product.

Result: Negative

Species: Mouse

Notes: OECD 476

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**

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

**Specific target organ toxicity - single exposure**

May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Further information**

Rosin Ester

Cytotoxicity - in Vitro, Not cytotoxic  
 Result: Negative  
 Species: Human  
 Organ: Fibroblasts cells  
 Notes: BS 30993-5  
 Cytotoxicity - in Vitro, Not cytotoxic  
 Result: Negative  
 Species: Human  
 Organ: Lung cell tissue  
 Notes: BS 5736  
 Cytotoxicity - in Vitro, Not cytotoxic  
 Result: Negative  
 Species: Mouse  
 Organ: Fibroblasts cells  
 Test Duration: 72 hr  
 Observation Period: 24 hr  
 Notes: BS 5736

**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.

Components		Species	Test Results
Modified Rosin Ester			
<b>Aquatic</b>			
Algae	EC0	Algae	1000 mg/l, 72 hr Data is for similar product.; OECD 201
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 48 hr Data is for similar product.; OECD 202
	NOEL	Water flea (Daphnia magna)	100 mg/l, 48 hr Data is for similar product.; OECD 202
Fish	LC0	Danio (Danio)	> 400 mg/l, 96 hr Data is for similar product.; OECD 203
Rosin Ester			
<b>Aquatic</b>			
Algae	EL50	Green algae (Selenastrum capricornutum)	> 1000 mg/l, 72 hr OECD 201
	NOEL	Green algae (Selenastrum capricornutum)	1000 mg/l, 72 hr OECD 201
Crustacea	EL50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hr OECD 202
	NOEC	Water flea (Daphnia magna)	1000 mg/l, 48 hr OECD 202
Fish	LL50	Fathead minnow (Pimephales promelas)	> 1000 mg/l, 96 hr OECD 203
	NOEL	Fathead minnow (Pimephales promelas)	1000 mg/l, 96 hr OECD 203

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability**

**Biodegradability**

**Percent degradation (Aerobic biodegradation)**

Rosin Ester

0 % OECD 301B  
 Result: Not readily biodegradable.  
 Species: Activated sewage sludge  
 Test Duration: 28 days

**Bioaccumulative potential**

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

### 15. Regulatory information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### **SARA 304 Emergency release notification**

Not regulated.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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#### **SARA 302 Extremely hazardous substance**

Not listed.

<b>SARA 311/312 Hazardous chemical</b>	Yes
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#### **SARA 313 (TRI reporting)**

Not regulated.

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
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<b>NFPA ratings</b>	Health: 3 Flammability: 1 Instability: 0
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**16. Other information, including date of preparation or last revision**

**Issue date** 11-05-2014  
**Revision date** 12-01-2016  
**Version #** 3.0

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**Revision information**

Hazard(s) identification: Prevention  
 Hazard(s) identification: Response  
 Handling and storage: Conditions for safe storage, including any incompatibilities  
 Handling and storage: Safe storage conditions (and technical measures)  
 Physical and chemical properties: Color  
 Physical and chemical properties: Oxidizing properties  
 Physical and chemical properties: Explosive properties  
 Regulatory information: European Union  
 Other information, including date of preparation or last revision: Disclaimer  
 GHS: Classification