



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** SYLVAROS™ DR 22, HOT

**Other means of identification**

**SDS number** 13685

**Product Code** 200000001622

**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**

**Manufacturer**

**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** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The substance does not meet the criteria for classification.

**Precautionary statement**

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** Contact with hot material can cause thermal burns which may result in permanent damage. At elevated temperatures, vapor may cause irritation of eyes and respiratory tract.

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
Rosin		8050-09-7	100

## 4. First-aid measures

<b>Inhalation</b>	If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
<b>Skin contact</b>	If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Cool skin rapidly with cold water after contact with molten material.
<b>Eye contact</b>	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Powder. Water spray, dry chemical, carbon dioxide.
<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. Extinguish fires started by molten material by using appropriate method for the burning material.
<b>Specific methods</b>	Extinguish fires started by molten material by using appropriate method for the burning material.
<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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid inhalation of fumes from molten product. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with hot material. 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. Cover with plastic sheet to prevent spreading. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. 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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with hot material. Avoid breathing vapor from heated material. 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.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
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<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves.
<b>Other</b>	For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.
<b>Respiratory protection</b>	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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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. Eye wash fountain and emergency showers are recommended.

## 9. Physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Viscous liquid
<b>Color</b>	Amber.
<b>Odor</b>	Rosin
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	143.6 °F (62 °C) Ring & Ball
<b>Initial boiling point and boiling range</b>	> 572 °F (> 300 °C) (rosin)
<b>Flash point</b>	399.2 °F (204.0 °C) Setafash Closed Cup
<b>Evaporation rate</b>	0 (n-BuAc=1) estimated
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	< 0.001 mm Hg at 20°C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.05 at 25°C/25°C (water=1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	0.9 mg/l at 20°C.; Data is for similar product.
<b>Partition coefficient (n-octanol/water)</b>	1.9 - 7.7 at 30°C.; Data is for similar product.
<b>Auto-ignition temperature</b>	590 °F (310 °C) (tall oil rosin)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Chemical family</b>	Tall Oil Rosin

<b>Density</b>	1060.00 kg/m3 at 20°C
<b>Dissociation constant</b>	Not available
<b>Percent volatile</b>	0 % by weight. estimated
<b>Softening point</b>	143.6 °F (62 °C) Ring & Ball
<b>Weighted solids</b>	100 %

## 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>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Strong oxidizing agents. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<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>	Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
<b>Skin contact</b>	Molten material will produce thermal burns.
<b>Eye contact</b>	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.
Rosin	Irritation Corrosion - Eye, No eye irritation; OECD 405 Result: negative Species: New Zealand white rabbit Organ: Eye Test Duration: 72 hr

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

Components	Species	Test Results
Rosin (CAS 8050-09-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Sprague-Dawley rat	> 2000 mg/kg, 24 hr At this dose no death occurred.; OECD 402
<i>Oral</i>		
LD50	Rat	2800 mg/kg OECD 402
	Sprague-Dawley rat	5000 - 10000 mg/kg, 14 d Data is for similar product.;
NOEL	Sprague-Dawley rat	1000 ppm, 2 wk

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

**Skin corrosion/irritation** Molten material will produce thermal burns.

#### Corrosivity

Rosin

Irritation Corrosion - Skin, Non-irritating to the skin.; OECD 404  
Result: negative  
Species: New Zealand white rabbit  
Test Duration: 72 hr

**Serious eye damage/eye irritation** Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.

**Eye Contact**

Rosin

Irritation Corrosion - Eye, No eye irritation; OECD 405

Result: negative

Species: New Zealand white rabbit

Organ: Eye

Test Duration: 72 hr

**Respiratory or skin sensitization****Respiratory sensitization** Not available.**Skin sensitization** This product is not expected to cause skin sensitization.**Skin sensitization**

Rosin

Buehler Test, Not a skin sensitizer.; OECD 406

Result: Negative

Species: Guinea pig

Organ: Skin

Local Lymph Node Assay - Lowest Concentration Producing

Reaction, Not a skin sensitizer.; OECD 429

Result: Negative

Species: Mouse

Organ: Skin

**Germ cell mutagenicity**

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

**Mutagenicity**

Rosin

Ames test, Not mutagenic.; OECD 471;

Result: Negative

Species: Salmonella typhimurium

Chromosome aberration test in vitro, Not mutagenic.; OECD 473;

Result: Negative

Species: Human

In vitro gene mutation study in mammalian cells, Not mutagenic.; OECD 476;

Result: Negative

Species: Mammal

**Carcinogenicity**

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

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

Not listed.

**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 hazard**

Not available.

**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
Rosin (CAS 8050-09-7)	EC50	Activated sewage sludge > 10000 mg/l, 3 hr OECD 209;
<b>Aquatic</b>		
Algae	EL50	Green algae (Selenastrum capricornutum) > 1000 mg/l, 72 hr OECD 201;
Crustacea	EL50	Water flea (Daphnia magna) 911 mg/l, 48 hr OECD 202;

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

**Persistence and degradability**

The product is biodegradable.

## Biodegradability

### Percent degradation (Aerobic biodegradation)

Rosin

64 % OECD 301B

Result: Readily biodegradable.

Species: Activated sewage sludge

Test Duration: 28 d

## Bioaccumulative potential

### Partition coefficient n-octanol / water (log Kow)

SYLVAROS™ DR 22, HOT

1.9 - 7.7, at 30°C.; Data is for similar product.

### 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

### Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

### Local disposal regulations

Dispose in accordance with all applicable regulations.

### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

### 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

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

#### UN number

UN3257

#### UN proper shipping name

Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (Rosin)

#### Transport hazard class(es)

##### Class

9

##### Subsidiary risk

-

##### Label(s)

9

#### Packing group

III

#### Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

#### Special provisions

IB1, T3, TP3, TP29

#### Packaging exceptions

None

#### Packaging non bulk

None

#### Packaging bulk

247

### IATA

#### UN number

UN3257

#### UN proper shipping name

Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (Rosin)

#### Transport hazard class(es)

##### Class

9

##### Subsidiary risk

-

#### Packing group

Not applicable.

#### Environmental hazards

No.

#### ERG Code

9L

#### Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

#### Other information

##### Passenger and cargo aircraft

Forbidden

##### Cargo aircraft only

Forbidden

### IMDG

#### UN number

UN3257

#### UN proper shipping name

ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (Rosin)

#### Transport hazard class(es)

##### Class

9

##### Subsidiary risk

-

#### Packing group

III

**Environmental hazards**

**Marine pollutant**

No.

**EmS**

F-A, S-P

**Special precautions for user**

Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not available.

**DOT; IATA; IMDG**



**15. Regulatory information**

**US federal regulations**

This product is not known to be 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.

**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 listed.

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

**Hazard categories**

Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

No

**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.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

## NFPA ratings



## US state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### US. Massachusetts RTK - Substance List

Not regulated.

### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

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

Rosin (CAS 8050-09-7)

### US. Rhode Island RTK

Not regulated.

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

**Issue date** 03-30-2015

**Revision date** 03-30-2015

**Version #** 1.0

### Disclaimer

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