



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** SYLVABLEND™ PF 60, HOT

**Other means of identification**

**SDS number** 13683

**Product Code** 200000001620

**Recommended use** This product is manufactured and sold for "Fuel Use Only" and as such is exempt from listing on the Toxic Substances Control Act (TSCA) Inventory. Any other use, not specifically exempted from TSCA, must be in accordance with the requirements set forth in the TSCA Research & Development exemption (40 CFR 720.36).

**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 mixture 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)** After prolonged contact with highly porous materials, this product may spontaneously combust.

**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

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Tall Oil Pitch Blend		Proprietary	80-99

Material name: SYLVABLEND™ PF 60, HOT  
Version #: 1.0

MSDS/SDS # 13683  
Revision date: 03-27-2015

Print date: 03-27-2015

SDS US  
1 / 9

Chemical name	Common name and synonyms	CAS number	%
Rosin		8050-09-7	1-20

\*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>	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>	Water fog. 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>	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>	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. 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. Avoid contact with hot material. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	<p>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. 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.</p> <p>Small Spills: Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.</p>
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid contact with hot material. Avoid breathing vapor from heated material. Avoid prolonged exposure. 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.
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**Conditions for safe storage, including any incompatibilities**

Do not store in direct sunlight. 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

### Occupational exposure limits

**U.S. - OSHA  
Components**

Type	Value	Form
TWA	5 mg/m3	Oil Mist; Respirable

**ACGIH  
Components**

Type	Value	Form
STEL	10 mg/m3	Oil Mist; Respirable
TWA	5 mg/m3	Oil Mist; Respirable

**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. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

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

**Eye/face protection**

Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection**

Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves.

**Other**

For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.

**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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**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. Eye wash fountain and emergency showers are recommended.

## 9. Physical and chemical properties

**Appearance**

Liquid.

**Physical state**

Liquid.

**Form**

Viscous. Liquid.

**Color**

Dark brown

**Odor**

Strong. Sulphurous.

**Odor threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

Not available.

**Flash point**

> 212.0 °F (> 100.0 °C)

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)**

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>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	< 0.1 %
<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>	100 - 350 cSt cone and plate
<b>Other information</b>	
<b>Specific gravity</b>	0.98

## 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. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. 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. Prolonged inhalation may be harmful.
<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.
Tall Oil Pitch Blend	Irritation Corrosion - Eye, No eye irritation; Data is for similar product.; OECD 405 Result: Negative Species: New Zealand white rabbit Organ: Eye
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
Tall Oil Pitch Blend		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Sprague-Dawley rat	> 2000 mg/kg, 14 days At this dose no death occurred.; OECD 402;
<i>Oral</i>		
LD50	Sprague-Dawley rat	> 2000 mg/kg, 14 days At this dose no death occurred.; OECD 423;
* Estimates for product may be based on additional component data not shown.		
<b>Skin corrosion/irritation</b>	Molten material will produce thermal burns.	
<b>Corrosivity</b>		
Tall Oil Pitch Blend		Irritation Corrosion - Skin, No skin irritation.; Data is for similar product.; OECD 404 Result: Negative Species: New Zealand white rabbit Organ: Skin Test Duration: 4 hr Observation Period: 72 hr
Rosin		Irritation Corrosion - Skin, Non-irritating to the skin.; OECD 404 Result: negative Species: New Zealand white rabbit Test Duration: 72 hr
<b>Serious eye damage/eye irritation</b>	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.	
<b>Eye Contact</b>		
Tall Oil Pitch Blend		Irritation Corrosion - Eye, No eye irritation; Data is for similar product.; OECD 405 Result: Negative Species: New Zealand white rabbit Organ: Eye
Rosin		Irritation Corrosion - Eye, No eye irritation; OECD 405 Result: negative Species: New Zealand white rabbit Organ: Eye Test Duration: 72 hr
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>Skin sensitization</b>		
Rosin		Buehler Test, Not a skin sensitizer.; OECD 406 Result: Negative Species: Guinea pig Organ: Skin

**Skin sensitization**

Tall Oil Pitch Blend

Buehler Test, Not a skin sensitizer.; OECD 406

Result: Negative

Species: Guinea pig

Organ: Skin

Test Duration: 24 h

Observation Period: 72 h

Rosin

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

Tall Oil Pitch Blend

Germ Cell Mutagenicity: Ames, Not mutagenic.; OECD 471

Result: Negative

Species: Salmonella typhimurium

Germ Cell Mutagenicity: Chromosome Abberation, Not mutagenic.; OECD 473

Result: Negative

Species: Human

Organ: lymphoma cells

Rosin

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;
Tall Oil Pitch Blend		
<i>Acute</i>	EL50	Activated sewage sludge > 100 mg/l, 3 hr >> Water solubility; Data is for similar product.; OECD 209
		Green algae (Scenedesmus subspicatus) > 100 mg/l, 72 hr >> Water solubility; OECD 201

Components	Species	Test Results	
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EL50	Daphnia	> 2000 mg/l, 48 hr >> Water solubility; OECD 202
Fish	LL50	Danio (Danio)	> 100 mg/l, 96 hr >> Water solubility; OECD 203

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

#### Persistence and degradability

##### Biodegradability

##### Percent degradation (Aerobic biodegradation)

Rosin	64 % OECD 301B Result: Readily biodegradable. Species: Activated sewage sludge Test Duration: 28 d
Tall Oil Pitch Blend	36 % Closed Bottle Test, Not readily biodegradable.; OECD 301D; 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.
<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>	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

<b>UN number</b>	UN3257
<b>UN proper shipping name</b>	Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (Tall Oil Pitch Blend)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	9
<b>Packing group</b>	III
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB1, T3, TP3, TP29
<b>Packaging exceptions</b>	None
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	247

#### IATA

<b>UN number</b>	UN3257
<b>UN proper shipping name</b>	Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (Tall Oil Pitch Blend)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	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 (Tall Oil Pitch Blend)

**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** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. Tall Oil Pitch - Annex II / Pollution Category Y.

**DOT; IATA; IMDG**



## 15. Regulatory information

**US federal regulations**

This product is manufactured and sold for "Fuel Use Only" and as such is exempt from listing on the Toxic Substances Control Act (TSCA) Inventory. Any other use, not specifically exempted from TSCA, must be in accordance with the requirements set forth in the TSCA Research & Development exemption (40 CFR 720.36). This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**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** 03-27-2015

**Revision date** 03-27-2015

**Version #** 1.0

**Disclaimer**

The information contained herein is based on data believed to be reliable and the manufacturer disclaims any liability incurred from the use or reliance upon the same. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.