



SAFETY DATA SHEET

1. Identification

Product identifier SYLVABLEND™ PF 40, HOT

Other means of identification

SDS number 13585

Product Code 200000001525

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 40, HOT
Version #: 1.1

MSDS/SDS # 13585
Revision date: 03-19-2015

Print date: 03-19-2015

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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

Inhalation	If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Skin contact	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.
Eye contact	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.
Ingestion	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.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	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

Suitable extinguishing media	Water fog. Water spray, dry chemical, carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
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	Wear suitable protective equipment. Extinguish fires started by molten material by using appropriate method for the burning material.
Specific methods	Extinguish fires started by molten material by using appropriate method for the burning material.
General fire hazards	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	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.
Methods and materials for containment and cleaning up	<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>
Environmental precautions	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

Precautions for safe handling	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.

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.001 mm Hg at 20°C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	< 0.1 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	100 - 350 cSt cone and plate
Other information	
Specific gravity	0.98

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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	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.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	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

Inhalation	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.
Skin contact	Molten material will produce thermal burns.
Eye contact	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)		
Acute		
<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		
Acute		
<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.		
Skin corrosion/irritation	Molten material will produce thermal burns.	
Corrosivity		
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
Serious eye damage/eye irritation	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.	
Eye Contact		
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
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

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;
Aquatic		
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	
Aquatic			
<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

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 (Tall Oil Pitch Blend)
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 (Tall Oil Pitch Blend)
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 (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 03-13-2015

Revision date 03-19-2015

Version # 1.1

Disclaimer

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