

1. Identification

Product identifier	SYLVABLEND™ PF 60
Other means of identification	
SDS number	8722
Product Code	200000000261
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	
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	None.

3. Composition/information on ingredients

Mixtures

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

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	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
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	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. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. 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. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
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. 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 spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>
Environmental precautions	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 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.
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/m ³	Oil Mist; Respirable

ACGIH Components

Type	Value	Form
STEL	10 mg/m ³	Oil Mist; Respirable
TWA	5 mg/m ³	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.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

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

Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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 applicable.

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	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Strong oxidizing agents. Contact with incompatible materials. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.
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	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary 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.
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Information on toxicological effects

Acute toxicity

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

Components	Species	Test Results
NOEL	Sprague-Dawley rat	1000 ppm, 2 wk
Tall Oil Pitch Blend		
Acute		
Dermal		
LD50	Sprague-Dawley rat	> 2000 mg/kg, 14 days At this dose no death occurred.; OECD 402;
Oral		
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 Prolonged skin contact may cause temporary irritation.

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 Direct contact with eyes may cause temporary 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

ACGIH sensitization

Rosin (CAS 8050-09-7)

Dermal sensitization

Respiratory sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

Tall Oil Pitch Blend

Species: Human
Germ Cell Mutagenicity: Ames, Not mutagenic.; OECD 471
Result: Negative
Species: Salmonella typhimurium
Germ Cell Mutagenicity: Chromosome Abberation, Not mutagenic.; OECD 473
Result: Negative

Rosin

Species: Human
Organ: lymphoma cells
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.

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 Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged 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.

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
Aquatic			
<i>Acute</i>			
Crustacea	EL50	Daphnia	> 2000 mg/l, 48 hr >> Water solubility; OECD 202

Components	Species	Test Results
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 Not available.

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

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

UN number

Not available.

UN proper shipping name

Tall Oil Pitch - Annex II / Pollution Category Y

Transport hazard class(es)

Class

Not available.

Subsidiary risk

-

Packing group

Not applicable.

Environmental hazards

Marine pollutant

No.

EmS

Not available.

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.

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 regulated.

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



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

Issue date 03-04-2015
Revision date 12-13-2016
Version # 2.0

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Revision information

Ecological information: Persistence / degradability

Regulatory information: US federal regulations

HazReg Data: North America