



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name SYLVARES™ TP 96
Version # 1.0
Revision date 05-02-2012
Product Code 2000411, 2000412
Manufacturer information Arizona Chemical Company, LLC
Building 100
4600 Touchton Road East, Suite 1200
Jacksonville, FL 32246 United States
Fax 904-928-8780
Phone 877-273-2267
Phone 904-928-8700
Emergency-US CHEMTREC 800-424-9300

Patent Information U.S. Pat. No. 5457175

2. Hazards Identification

Emergency overview Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air. Static charges generated by emptying package in or near flammable vapor may cause flash fire.

OSHA regulatory status This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Not applicable.

Eyes Dust in the eyes will cause irritation. Fumes released during thermal processing may cause eye irritation. Molten material will produce thermal burns.

Skin Molten material will produce thermal burns.

Inhalation Dust may irritate respiratory system. Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

Ingestion May cause irritation.

3. Composition / Information on Ingredients

Non-hazardous components	CAS #	Percent
Terpene Resin	NJTSRN-6748	100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.

Skin contact Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists. 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.

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

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.

General advice 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

Flammable properties	High concentrations of dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapor may cause flash fire.
Extinguishing media	
Suitable extinguishing media	Water spray, dry chemical, carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Specific hazards arising from the chemical	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Fire fighting equipment/instructions	Wear suitable protective equipment. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid inhalation of dust from the spilled material. Avoid inhalation of fumes from molten product. Avoid contact with hot material.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain the discharged material.
Methods for cleaning up	Avoid the generation of dusts during clean-up. Attempt to reclaim the free product, if this is possible. Collect and dispose of spillage as indicated in section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations. Sweep up or gather material and place in appropriate container for disposal. Avoid the generation of dusts during clean-up.

7. Handling and Storage

Handling	Avoid heat, sparks, open flames and other ignition sources. Ground container and transfer equipment to eliminate static electric sparks. Avoid dust formation. Do not breathe dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Observe good industrial hygiene practices. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. If product is in dust form, it is classified as a dust explosion hazard class II. Handling of product in dust form should be in accordance with NFPA. Avoid contact with hot material. Avoid breathing vapor from heated material. Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air.
Storage	Keep away from heat, sparks and open flame. Guard against dust accumulation of this material. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³ 10 mg/m ³	Respirable particles. Inhalable particles.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Additional components	Type	Value	Form
Dust	PEL	5 mg/m ³ 15 mg/m ³	Respirable fraction. Total dust.
	TWA	5 mg/m ³ 15 mg/m ³ 50 mppcf 15 mppcf	Respirable fraction. Total dust. Total dust. Respirable fraction.

Engineering controls	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Use explosion-proof ventilation equipment to stay below exposure limits.
Personal protective equipment	
Eye / face protection	Safety glasses. Use tight fitting goggles if dust is generated. Wear a face shield when working with molten material.
Skin protection	Wear suitable protective clothing and gloves. 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.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Appearance	Solid.
Physical state	Solid.
Form	Solid. Flakes.
Color	Light yellow.
Odor	Mild. Phenolic.
pH	Not available.
Vapor pressure	< 0.001 mm Hg at 20°C
Melting point/Freezing point	Not available.
Solubility (water)	< 0.1 % at 25°C
Relative density	1.05 at 25°C/25°C (water=1)
Flash point	360 °F (182 °C) Setaflash Closed Cup
Evaporation rate	0 (n-BuAc=1) estimated
Viscosity	8850 cP Brookfield at 125°C
Percent volatile	3 - 3.5 % EPA Method 24
Softening point	203 °F (95 °C) Ring & Ball
Molecular weight	520 - 560
Other data	
Chemical family	Terpene Resin
Density	1050 kg/m ³ at 20°C
Flammability	Non flammable.
Flammability class	Non-hazardous substance.
Weighted solids	100 %

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Strong oxidizing agents. Avoid conditions which create dust. Keep away from heat, sparks and open flame.
Incompatible materials	This product may react with 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

Sensitization	Not available.
Acute effects	Not available.
Local effects	Dust in the eyes will cause irritation. Inhalation of dusts may cause respiratory irritation. Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not available.

Further information This product has no known adverse effect on human health.
Serious eye damage/eye irritation Not available.

12. Ecological Information

Persistence and degradability Not readily degradable.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

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.

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

None

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
 Flammability: 1
 Physical hazard: 0

NFPA ratings

Health: 1
 Flammability: 1
 Instability: 0

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List of abbreviations

Not available.