



MATERIAL SAFETY DATA SHEET

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Arizona Chemical Company
 P.O. Box 550850
 Jacksonville, FL 32255

24 Hour Emergency Assistance:
 Chemtrec: 800/424-9300
 Other Information: 800/733-1374

Product Name: SYLVASOL™ 80-E70

Chemical Identity: Mixture of Polyamide and Ethanol.

Chemical Family: Polyamide Resin Solution

CAS Number: Mixture (See Section 2 and 15)

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SECTION 2 COMPOSITION/INFORMATION OF INGREDIENTS

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COMPONENT	CASRN	WT%	ACGIH TLV		OSHA PEL	
			TWA	STEL	TWA	STEL
Polyamide Resin	Confidential	30	NE	NE	NE	NE
Ethanol	64-17-5	70	1000	NE	1000	NE

TLV = Threshold Limit Value
 PEL = Permissible Exposure Limit
 TWA = Time-Weighted Average (8 hours)
 STEL = Short Term (15 minute) Exposure Limit
 NE = Not Established

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SECTION 3 HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW:

Light yellow liquid with an alcohol odor.

1. WARNING! FLAMMABLE LIQUID AND VAPOR.
2. CONTAINS ETHANOL THAT CAUSES EYE IRRITATION AND MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.
3. MAY BE HARMFUL OR FATAL IF SWALLOWED.
4. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.
5. KEEP AWAY FROM HEAT, SPARKS, FLAME, STATIC ELECTRICITY OR OTHER IGNITION SOURCES.
6. GROUND ALL TRANSFER EQUIPMENT.
7. DO NOT CUT, WELD OR DRILL ON OR NEAR CONTAINER.
8. "EMPTY" CONTAINER RETAINS RESIDUE WHICH MAY EXPLODE IN HEAT OF A FIRE.

POTENTIAL HEALTH EFFECTS:

EYE: This material may causes moderate to severe eye irritation. Direct contact with the solution or exposure to vapors or mists may cause stinging, tearing, redness, swelling, blurred vision and possible corneal injury.

SKIN: This material may cause moderate skin irritation. Prolonged or repeated contact may cause drying and defatting leading to fissured dermatitis.

INHALATION: Breathing high concentrations of vapors may cause irritation of the nose and throat and signs of central nervous system depression (e.g. headache, drowsiness, dizziness, nausea, blurred vision, loss of coordination, fatigue, unconsciousness).

INGESTION: Not a probable route of entry into the body. Due to the presence of denatured alcohol, this material may be fatal or cause blindness if swallowed and may cause systemic toxicity, liver and kidney damage, and central nervous system depression. Aspiration of solvent into the lungs during swallowing or vomiting can cause lung inflammation and damage.

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SECTION 4 FIRST AID MEASURES
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EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Call a physician if signs of irritation persist. Wash clothing before reuse.

INHALATION: Remove to fresh air, if effects occur from exposure to vapors. If symptoms persist, call a physician. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the instructions of a physician. Aspiration of solvent into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Treat symptomatically and supportively. Never give anything by mouth to an unconscious person.

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SECTION 5 FIRE FIGHTING MEASURES
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Flash point: 58°F (Setaflash Closed Cup)
Upper/lower flammable limits: 12.8%/2.6% by volume in air (Ethanol)
Autoignition temperature: 858°F (Ethanol)
Flammability classification: Class IB Flammable liquid
Flame propagation rate: Unknown
Extinguishing media: Water fog, foam, carbon dioxide or dry chemical.
Special precautions: Toxic gases such as carbon monoxide may be released during fire. Use positive-pressure, self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion

Hazards: May be ignited by heat, sparks, flame or static electricity. Forms explosive vapor/air mixtures. Ethanol vapors are heavier than air and may travel considerable distance to a source of ignition and flash back.

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SECTION 6 ACCIDENTAL RELEASE MEASURES
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Large spills: Eliminate all ignition sources. Stay upwind and away from spill. Use sand or earth to contain the spill. Keep out of drains, sewers or waterways. Dispose of contaminated material.

Small spills: Use absorbent pads or mix with absorbent material and dispose.

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SECTION 7 HANDLING AND STORAGE
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Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep container tightly closed. Use and store this material in cool, dry, well ventilated area away from heat and all sources of ignition. Ground all transfer equipment. "Empty" containers retain residue and can be dangerous. Do not pressurize, cut, weld, solder, drill, grind or expose such containers to heat or other sources of ignition. Follow guidelines as established for NFPA Class I Flammable Liquids, NFPA 30 Flammable and Combustible Liquids Code.

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION
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EYES: If eye contact can occur, use chemical safety goggles. An eye wash is recommended.

SKIN: Impervious (for example, rubber, neoprene, vinyl, nitrile) gloves and other protective clothing should be used to prevent body contact. A safety shower is recommended.

INHALATION: If airborne concentrations exceed the allowable exposure limits, a NIOSH approved respirator of the type for organic vapors should provide adequate protection. For high or unknown concentrations, a supplied air respirator should be used.

ENGINEERING CONTROLS: Use sufficient ventilation to keep airborne concentrations below allowable limits. Eliminate all ignition sources.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
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Appearance/state: Light yellow liquid
Odor: Alcohol
Ph: Not applicable
Vapor Pressure: 45 mmHg at 20°C (68°F)(Ethanol)
Vapor density: 2.0 (Ethanol)
Boiling point: 78°C (172°F) (Ethanol)
Freezing point: Unknown
Solubility in water: 50% soluble in water
Specific gravity: 0.88 at 25°C/25°C (water=1.00)
Evaporation rate: 2.0 (Ethanol)(n-butyl acetate=1)
% Volatile by weight: 70

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SECTION 10 STABILITY AND REACTIVITY
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Chemical stability: Stable under normal temperatures and pressures.

Conditions to avoid: All possible sources of ignition. Does not react with water.

Chemicals to avoid: Strong oxidizing agents.

Hazardous Polymerization: Will not occur under normal temperatures and pressures.

Hazardous Decomposition Products: Thermal decomposition products include toxic oxides of carbon.

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SECTION 11 TOXICOLOGICAL INFORMATION
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The total product is not on the International Agency for Research on Cancer (IARC) or National Toxicology Program (NTP) or OSHA lists of carcinogens or potential carcinogens. Ethanol is listed as IARC Evidence of Carcinogenicity in Animals I (Inadequate data). IARC has reported a relationship between drinking alcoholic beverages and cancer of oral cavity, pharynx, larynx, esophagus and liver.

TOXICITY DATA: We do not have any toxicity data available for this product. The following data obtained from literature sources for ethanol indicates this material has low to moderate acute oral and dermal toxicity. It can cause eye, skin, and respiratory irritation due to the presence of ethanol.

COMPONENT	ROUTE-SPECIES	TEST	DOSAGE	UNITS	IRRITATION DATA
Ethanol	Oral-rat	LD50	7.06	g/kg	Eye-rabbit Mild/severe
	Oral -human	LDLo	1.4	g/kg	Skin-rabbit Moderate

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SECTION 12 ECOLOGICAL INFORMATION
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There is no data available for the total product.

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SECTION 13 DISPOSAL CONSIDERATIONS
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Dispose of waste by incineration in accordance with all local, state and federal regulations.

Resource Conservation and Recovery Act (RCRA): This product is included in the lists of hazardous substances (40 CFR 261.33), and it does meet RCRA's characteristic definition of ignitability.

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 SECTION 14 TRANSPORT INFORMATION
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DOT - Department of Transportation Hazardous Materials Regulations

DOT Hazard Class: Class 3
 DOT Proper Shipping Name: Ethanol Solution
 Technical Name: Not applicable
 DOT Identification Number: UN 1170
 Surface Freight Classification: Not applicable
 Packing Group: II

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 SECTION 15 REGULATORY INFORMATION
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EPA - Toxic Substances Control Act (TSCA): All the components of this product are on the TSCA Inventory.

SARA, Title III, Section 313 (40 CFR 372): This product contains the following substances which are reportable under SARA Toxic Chemical Release Reporting Regulations:

Chemical Name	CAS #	Wt%
None		

EPA - SARA 311/312 Hazard Categories: This product has the following hazard categories: Fire, Immediate (Acute) Health, Delayed (Chronic) Health.

New Jersey Worker and Community Right To Know Act: This product contains the following substances which appear on the Hazardous Substance List, have trade secret numbers or are top five ingredients:

Chemical Name	CAS or NJTS #	Wt%
Polyamide Resin	NJTSRN-7409	30
Ethanol	64-17-5	70

Pennsylvania Worker and Community Right To Know Act: This product contains the following substances which appear on the Hazardous Substance List:

Chemical Name	CAS Number	Wt%
Ethanol	64-17-5	70

WHMIS (Canada) Status: This is a controlled product under WHMIS: Class B, Division 2 and Class D, Division 2, Subdivision B. It contains ethanol above the ingredient disclosure amount.

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SECTION 16 OTHER INFORMATION
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Hazard Ratings: NFPA 1 Health 3 Fire 0 Reactivity

Revision Note: Revision 2. Revised Section 1 and 11.

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Title: Sr. Product Regulatory Specialist

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END OF MSDS