



SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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: UNI-REZ® 2228
Chemical Identity: Trade Secret
Generic Name: Fatty Acid Dimer-Based Polyamide Resin
Chemical Family: Polyamide Resins
CAS Number: Confidential (See Section 15).

SECTION 2 COMPOSITION/INFORMATION OF INGREDIENTS

	ACGIH TLV (mg/m ³)		OSHA PEL (mg/m ³)	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
Particulates not otherwise classified	10	NE	NE	NE
Particulates not otherwise regulated				
Total dust	NE	NE	15	NE
Respirable fraction	NE	NE	5	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

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Amber solid with a mild amine odor.

1. WARNING! MAY FORM FLAMMABLE OR EXPLOSIVE DUST-AIR MIXTURES.
2. AVOID BREATHING DUST.

POTENTIAL HEALTH EFFECTS:

EYE: Resin dust can cause irritation.

SECTION 3 HAZARDS IDENTIFICATION CONT'D

SKIN: Prolonged or repeated contact may cause mild irritation.

INHALATION: Inhalation of dust, molten resin vapor or fumes may cause minor irritation of the nose and throat in sensitive individuals. The molten resin vapors or fumes may cause sensitization and the development of an asthmatic reaction in certain sensitive individuals.

INGESTION: Not a probable route of entry into the body.

SUBCHRONIC EFFECTS (Target Organ Effects): No effects known.

CHRONIC EFFECTS: No known effects.

SECTION 4 FIRST AID MEASURES

EYE CONTACT: In case of contact, flush eyes with plenty of water. Call a physician if signs of irritation appear.

SKIN CONTACT:

Solid Resin: As good industrial hygiene practice, at the end of each work shift, wash skin with plenty of soap and water. Call a physician if signs of irritation appear.

Molten Resin: Cool the affected area with cold water, but do not attempt to remove the solidified resin from the skin. Consult a physician immediately for burn treatment.

INHALATION: Remove to fresh air if effects occur from inhalation of molten resin vapor or fumes, or resin dust.

INGESTION: Emergency care should not be needed.

SECTION 5 FIRE FIGHTING MEASURES

Flash point: 496°F (Setaflash Closed Cup)
Upper/lower flammable limits: Unknown
Autoignition temperature: Unknown
Flammability classification: Non-hazardous
Flame propagation rate: Not applicable
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 form flammable dust-air mixtures. See Hazards: Engineering Controls (page 3).

SECTION 6 ACCIDENTAL RELEASE MEASURES

In a clean area, recover for reuse. Dispose of contaminated material.

SECTION 7 HANDLING AND STORAGE

When handling molten resin, use adequate ventilation to avoid the accumulation of fumes. Use good housekeeping to prevent dust accumulation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EYES:

Solid Resin: Use safety glasses. An eye wash is recommended.

Molten Resin: Use chemical safety goggles. An eye wash is recommended.

SKIN:

Solid Resin: As good industrial hygiene practice, impervious (for example, nitrile) gloves are recommended.

Molten Resin: Heat-resistant gloves and other protective clothing should be worn to prevent body contact. A safety shower is

INHALATION:

Solid Resin: For normal operations, no respiratory protection is required. A dust mask is recommended if resin dust becomes airborne.

Molten Resin: An air purifying respirator designed for organic vapors should provide adequate protection.

ENGINEERING CONTROLS: Use adequate ventilation. In process operations capable of generating static electricity and/or dust clouds; grounding, venting, and explosion relief provisions must be used.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/state: Amber solid
Odor: Mild amine
Ph: Not applicable
Vapor Pressure: <0.001 mm Hg at 20°C (68°F)
Vapor density: Not applicable
Boiling point: Not applicable
Melting point: 110°C
Solubility in water: <0.1% at 25°C (77°F)
Specific gravity: 0.97 at 25°C/25°C (water=1.00)
Evaporation rate: Approx. 0 (n-BuAc=1)
% Volatile by weight: 0

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

Conditions to avoid: Formation of dust clouds. This product is not reactive with water.

Chemicals to avoid: None known.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Thermal decomposition products can 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.

TOXICITY DATA: The following data on test animals indicate that chemically similar products have low acute toxicity potential.

ROUTE-SPECIES	TEST	DOSAGE	UNITS	IRRITATION DATA
Oral-rat	LD50	>15	g/kg	No data available

OTHER: Molten resin can cause thermal burns.

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SECTION 12 ECOLOGICAL INFORMATION
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There is no information available at this time.

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

Resource Conservation and Recovery Act (RCRA): This product is not included in the lists of hazardous substances (40 CFR 261.33), nor does it exhibit the characteristics of hazardous waste (40 CFR 261.20-24).

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

DOT Hazard Class: Not applicable
 DOT Proper Shipping Name: Not applicable
 Technical Name: Not applicable
 DOT Identification Number: Not applicable
 Surface Freight Classification: Plastic Synthetic
 Packing Group: Not applicable

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SECTION 15 REGULATORY INFORMATION
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Toxic Substances Control Act (TSCA): This product is on the TSCA Inventory.

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

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt%</u>
None		

SARA 311/312 Hazard Categories: This product has the following hazard categories: None.

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

<u>Chemical Name</u>	<u>CAS or NJTS #</u>	<u>Wt%</u>
Trade Secret.	NJTSRN-6673	100

Pennsylvania Worker and Community Right To Know Act: This product contains the following substances which appear on the Hazardous Substance List at a level which requires notification under the Act:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt%</u>
None		

WHMIS (Canada) Status: This is not a controlled product.

International Inventory Status: This product is either listed or exempt from listing on the following inventories: Canada DSL, Europe EINECS, Japan ENCS, Korea ECL, Australia AICS, China IECS, and Philippines PICCS.

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

Revision Note: Revision 9. Revised Section 15.

Prepared by: L.M. Krzywanska

Title: Product Regulatory Technologist

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END OF MSDS