



Material Safety Data Sheet

72297D

Revision Date: 12/29/2003

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COPOLYMER 958

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Responsible Party: International Specialty Products
1361 Alps Rd.
Wayne, N.J. 07470
U.S.A.
Telephone: (973) 628-4000

Emergency Telephone Number: CHEMTREC: 1-800-424-9300 (Spill Related Emergencies)
PROSAR: 1-800-241-7439 (Health Related Emergencies)

Prepared By: Product Stewardship

Product Id: 72297D

Product Name: COPOLYMER 958

CAS Registry Number: 30581-59-0; 64-17-5

CAS Name: 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone; Ethanol

Formula: (C₈H₁₅NO₂ * C₆H₉NO)_x

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components:	Weight %	ACGIH Threshold Limit Values Data - Time Weighted Average (TWA):	OSHA Specifically Regulated Substances Data - Time Weighted Average (TWA):
2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone 30581-59-0	48-52	No TLV/TWA Established	No TLV/TWA Established
ETHANOL 64-17-5	48-52	1000 ppm	1900 mg/m ³ 1000 ppm
1-Ethenyl-2-pyrrolidinone 88-12-0	1000 ppm	0.05 ppm	No TLV/TWA Established

Statement of Hazardous Nature: Flammable (Ethanol). Causes moderate eye irritation. Causes moderate skin irritation. Animal studies indicate that inhalation can cause liver and nasal damage. Possible cancer hazard based on animal studies. (1-Ethenyl-2-pyrrolidinone)

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING: POSSIBLE CANCER HAZARD. FLAMMABLE LIQUID. CAUSES MODERATE EYE IRRITATION. CAUSES MODERATE SKIN IRRITATION.

Hazard Overview

Target Organs: Eyes / Skin

Primary Entry Routes: Eyes. Dermal - skin.

Acute Health Hazards: Causes moderate eye irritation. Causes moderate skin irritation.

Chronic Health Hazards: Possible risk for cancer (1-Ethenyl-2-pyrrolidinone)

Signs and Symptoms of Overexposure

Eye Contact: Causes moderate eye irritation.

Skin Contact: Causes moderate skin irritation.

Ingestion: Not a hazard under normal use conditions.

Inhalation: Not a hazard under normal use conditions.

4. FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Skin Contact: Immediately wash with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

5. FIRE FIGHTING MEASURES

NFPA Rating: HEALTH 2, FLAMMABILITY 3, REACTIVITY 0

Flash Point (°F): 55

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical
Water may be ineffective, but should be used to keep fire exposed containers cool.

Unusual Fire/Explosion Hazards: Moderate explosion hazard, dangerous fire hazard, when exposed to heat or flame (due to Ethanol).

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

HMIS RATING:

HEALTH	*2
FLAMMABILITY	3
PHYSICAL HAZARD	0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment.

Procedure for Cleaning/Absorption: Remove ignition sources. Contain spill with sand or other inert materials.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes. Wash thoroughly with soap and water after handling. Keep away from heat, sparks and flame.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight. Inside storage should be in a standard flammable liquids storage room or cabinet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use in a well ventilated area.
Respiratory Protection:	Use in a well ventilated area.
Hand Protection:	All cleanable impervious glove types are acceptable.
Eye Protection:	Chemical goggles; also wear a face shield if splashing hazard exists.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous liquid
Color:	Straw
Odor:	Alcohol
Odor Threshold:	Not available
pH:	6.2 - 6.8 (25% aqueous solution)
Specific Gravity:	0.95 (water=1)
Boiling Point (°F):	178.8
Melting Point/Freezing Point(°F):	NA
Vapor Pressure:	Not determined
Solubility:	Soluble in water

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of handling, use and transportation.
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Keep away from heat, sparks and flame. (Due to ethanol) Inside storage should be in a standard flammable liquid storage room or cabinet.
Materials to Avoid:	Concentrated nitric and sulfuric acid, strong oxidizing agents (Due to ethanol)
Hazardous Decomposition Products:	Carbon monoxide. Carbon dioxide. Toxic fumes of NO _x emitted when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

<u>Toxicity Test:</u>	
Acute Oral LD50 (mg/kg):	14,500 (rat)
Carcinogenicity:	Rat; 2-Year Inhalation: Benign and malignant tumors observed in nasal mucosa of both sexes at 20ppm and in males at 10ppm; only benign were seen at 10ppm in females and 5ppm in both sexes; liver and laryngeal tumors at 20ppm and liver damage at 5ppm in both sexes. (1-Ethenyl-2-pyrrolidinone)
Skin Irritation:	Moderately irritating to rabbit skin.
Eye Irritation:	Moderately irritating to rabbit eye.
Other Information:	Sub Chronic Inhalation Toxicity: Subacute inhalation caused liver damage in rats at 15ppm. (1-Ethenyl-2-pyrrolidinone)

12. ECOLOGICAL INFORMATION

Biodegradability:	Not determined.
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Aquatic Toxicity:

Rainbow trout, 96 hr. LC50= 5.66 mg/l

Daphnia magna, 24 hr. EC50=1019.46 mg/L; 48 hr. EC50=212.95 mg/l

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

Components:	ETHANOL 64-17-5
RCRA Class-	Listed.

14. TRANSPORT INFORMATION**Land Transportation:*****DOT (Non-Bulk):*****DOT Shipping Name:** RESIN SOLUTION**UN/NA Number:** UN1866**Hazard Class:** 3**Packing Group:** II***DOT (Bulk):*****DOT Shipping Name:** RESIN SOLUTION**UN/NA Number:** UN1866**Hazard Class:** 3**Packing Group:** II**Air Transportation (IATA):****Proper Shipping Name:** RESIN SOLUTION**UN Number:** 1866**Hazard Classification:** 3**Packing Group:** II**Sea Transportation (IMO):****Proper Shipping Name:** RESIN SOLUTION**UN/ID Number:** 1866**Hazard Classification:** 3**Packing Group:** II**TDG (Canada):****Proper Shipping Name:** RESIN SOLUTION**UN Number:** 1866**Hazard Class:** 3**Packing Group:** II**15. REGULATORY INFORMATION**

TSCA Inventory List: This product and/or its components is listed on TSCA.

**California Proposition 65
Carcinogens & Reproductive
Toxicity (CRT) List:**

None of the components of this product is listed on CALPROP.

**WHMIS Ingredient Disclosure
List -**

One or more components of this product is listed on the WHMIS Ingredient Disclosure list.

Canada DSL Inventory List:

This product and/or its components is listed on DSL.

Canada NDSL Inventory List:

This product and/or its components is not listed on NDSL.

**Japan Inventory of Existing &
New Chemical Substances
(ENCS):**

This product and/or its components is not listed on ENCS.

**Australia Inventory of Chemical
Substances (AICS) List:**

This product and/or its components is listed on AICS.

EU EINECS List:

This product and/or its components is not listed on or is exempt from EINECS.

EU ELINCS List:

This product and/or its components is not listed on ELINCS.

16. OTHER INFORMATION

Prepared By:

Product Stewardship

Legend:

N.Av.= Not Available; N.Ap.= Not Applicable

Important Note:

For purposes of this MSDS, International Specialty Products, as responsible party, provides the information herein which is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed. ISP's industrial products are used as materials in the production of products by industrial customers. ISP usually has only limited information about the products of its customers and their composition, methods of manufacture and use. Accordingly, ISP MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS OR RELIABILITY OF INFORMATION HEREIN EXCEPT THAT SUCH INFORMATION IS, TO THE BEST OF ISP'S KNOWLEDGE AND BELIEF, ACCURATE AS OF THE DATE INDICATED. ISP recommends that customers independently test and evaluate its products and their products and processes in which ISP products are used in order to decide their safety and effectiveness.

*****END OF MSDS*****