



Material Safety Data Sheet

72271D

Revision Date: 05/24/2007
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POLYCLAR® 10

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Responsible Party: ISP Chemicals Inc.
Rt. 95 Industrial Area
Calvert City, KY 42029

Emergency Telephone Number: CHEMTREC: 1-800-424-9300 or 703-527-3887 (Outside of the USA)
(Spill Related Emergencies)
PROSAR: 1-800-241-7439 (Health Related Emergencies)

Prepared By: Product Stewardship

Product Id: 72271D

Product Name: POLYCLAR® 10

CAS Registry Number: 9003-39-8

CAS Name: 2-Pyrrolidinone, 1-ethenyl-, homopolymer

Formula: (C₆H₉NO)_x

Synonyms: Poly(Vinylpolypyrrolidone)

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-Pyrrolidinone, 1-Ethenyl-, Homopolymer 9003-39-8	100	No TLV/TWA Established	No TLV/TWA Established

Statement of Hazardous Nature: Dusts at sufficient concentrations can form explosive mixtures with air.

3. HAZARDS IDENTIFICATION

Emergency Overview

DUSTS AT SUFFICIENT CONCENTRATIONS CAN FORM EXPLOSIVE MIXTURES WITH AIR.

Hazard Overview

Target Organs: None effected.

Primary Entry Routes: Not applicable.

Acute Health Hazards: None known.

Chronic Health Hazards: None known

Signs and Symptoms of Overexposure

Eye Contact: Not a hazard under normal use conditions.

Skin Contact: Not a hazard under normal use conditions.

Ingestion: Not a hazard under normal use conditions.

Inhalation: Not a hazard under normal use conditions.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with copious amounts of water.

Skin Contact: Wash with soap and water.

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: 1 Flammability: 1 Reactivity: 0

Flash Point (°F): Not determined

Extinguishing Media: All standard firefighting media

Unusual Fire/Explosion Hazards: Powdered material may form explosive dust-air mixtures. This material has an explosion hazard greater than Pittsburgh coal dust.

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

HMIS RATING:

HEALTH 0

FLAMMABILITY 1

PHYSICAL HAZARD 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment.

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

7. HANDLING AND STORAGE

Handling: Avoid generating or breathing dust.
Minimize dust generation and accumulation.

Storage: Keep containers tightly closed when not in use. Store in a cool, dry place, out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area.

Respiratory Protection: Use in a well ventilated area.

Hand Protection: Use gloves as a standard industrial handling procedure.

Eye Protection: Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: Off White

Odor:	Not determined
Odor Threshold:	Not available
pH:	5.0-11.0 (1% solution)
Specific Gravity:	Not determined
Boiling Point (°F):	Not determined
Melting Point/Freezing Point(°F):	Not determined
Vapor Pressure:	Not determined
Solubility:	Insoluble 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. Minimize dust generation and accumulation.
Materials to Avoid:	Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products:	Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Toxicity Test:	
Acute Oral LD50 (mg/kg):	>5,000 (Rats & Mice)
Sensitization:	Human RIPT: Non-sensitizing (PVP)
Mutagenicity:	Non-mutagenic. (Ames Assay; Dominant Lethal Test on mice; L5178Y Mouse (TK+/-) Lymphoma Assay; Bone Marrow Chromosomal Aberration Assay; BALB/C 3T3 Transformation) (PVP)
Reproductive/Developmental Toxicity:	Various studies of the reproductive toxicity of PVP in rats and rabbits produced no evidence of embryo toxicity or teratogenicity.
Carcinogenicity:	Exposure of dogs and various rodent species to PVP via the diet, injection and implant at up to 10% produced no signs of carcinogenic activity. Exposure up to 10% in the diets of rats and dogs produced no signs of toxicity or carcinogenic potential.
Teratogenicity:	Non-teratogenic
Skin Irritation:	Non irritating (Human RIPT). (PVP)
Eye Irritation:	Non-irritating to rabbit eye. (PVP)
Other Information:	Sub-Chronic Oral Toxicity: Exposure up to 10% in the diets of rats produced no signs of toxicity. Exposure up to 10% in the diet of dogs produced no signs of toxicity. (tested on analogous PVP)

12. ECOLOGICAL INFORMATION

Biodegradability:	Readily Biodegradability: Not readily biodegradable (11% in 28 Days) (PVP)
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Aquatic Toxicity: Juvenile Turbot: 96-hr. LC50 >1,000 mg/L (PVP)
Corophium Volutator; 10-Day LC50 >1,000 mg/L (PVP)
Marine Algae; 72-hr. EC50 >1,000 mg/L (PVP)
Salmon; PVP at up to 5% in the diet during smolt produced no signs of toxicity.
Salmon; PVP at up to 5% in the diet for 112 days did not produce any signs of toxicity.

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.

14. TRANSPORT INFORMATION

Land Transportation:

DOT (Non-Bulk):

UN/NA Number: NONE
DOT Shipping Name: NOT REGULATED
Hazard Class: NONE

DOT (Bulk):

UN/NA Number: NONE
DOT Shipping Name: NOT REGULATED

Air Transportation (IATA):

UN Number: NONE
Proper Shipping Name: NOT REGULATED
Hazard Classification: NONE

Sea Transportation (IMO):

UN/ID Number: NONE
Proper Shipping Name: NOT REGULATED
Hazard Classification: NONE

TDG (Canada):

Proper Shipping Name: NOT REGULATED
Hazard Class: NONE

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

ELINCS: 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

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END OF MSDS