



SAFETY DATA SHEET (91/155/EEC)

72809I

Revision Date: 02/17/2009
Issuing Date: 04/13/2009

POLYCLAR® VT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product Code: 72809I
Product Name: POLYCLAR® VT
CAS-No: 9003-39-8
CAS Name: 2-Pyrrolidinone, 1-ethenyl-, homopolymer
Formula: (C₆H₉NO)_x
Company/Undertaking Identification: ISP CHEMICALS LLC,
Rt. 95 Industrial Area,
455 N. Main Street,
Calvert City, Kentucky 42029

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ISP (Great Britain) Co. Ltd.
Waterfield, Tadworth
Surrey KT20 5HQ, United Kingdom
Tel: +44 1737 377 000
E-mail Address: MSDS@ISPCORP.COM
Synonyms: Poly(Vinylpolypyrrolidone)
Emergency Telephone: +32.3.575.55.55 (SGS)
Prepared By: Product Stewardship

2. HAZARDS IDENTIFICATION

EU Classification: This preparation is not classified as dangerous according to European Union Legislation

Hazard Summary

Target Organs: • None.
Primary Routes of Entry: Eyes. Skin. Ingestion. Inhalation.
Acute Health Hazard: None known.
Chronic Health Hazard: None known
Symptoms of Overexposure
Eye Contact: Not hazardous
Skin Contact: Not hazardous
Ingestion: Not hazardous
Inhalation: Not hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Weight %	EU Classification:	EU - Concentration Limits	ECC Number
2-Pyrrolidinone, 1-Ethenyl-, Homopolymer 9003-39-8	100	NA	NA	NA

4. FIRST AID MEASURES

Eye Contact:	Flush with plenty of water.
Skin Contact:	Wash off with soap and water.
Ingestion:	Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Inhalation:	Not hazardous by inhalation. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Get medical attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	All types
Combustion/Explosion Hazards:	Powdered material may form explosive dust-air mixtures. This material has an explosion hazard less than Pittsburgh coal dust.
Special Protective Equipment For Fire-Fighters:	Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective equipment.
Environmental Precautions:	None known.
Methods for Cleaning Up:	Clean up promptly by scoop or vacuum.

7. HANDLING AND STORAGE

Handling:	Avoid generating or breathing dust. Minimize dust generation and accumulation. Wash thoroughly after handling.
Storage:	Keep container tightly closed. Keep in a dry, cool place. Keep away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:	Use only in well-ventilated areas.
Respiratory Protection:	Use only in well-ventilated areas.
Hand Protection:	Wear protective gloves.
Eye Protection:	Safety glasses.
Environmental Controls:	Not determined.

Exposure Limits:

Components:	German Recommended Exposure Limits (MAK):	UK Workplace Exposure Limits (WELs)
2-Pyrrolidinone, 1-Ethenyl-, Homopolymer 9003-39-8 (100)	Not determined	Not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	Off White
pH:	3.0-7.0 (5% solution)
Boiling Point (°F):	Not determined
Melting/Freezing Point (°F):	Not determined
Vapor Pressure:	Not determined
Solubility:	Insoluble in Water

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Hazardous polymerization does 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:	nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Toxicity Test:

Acute Oral Toxicity (mg/kg):	>5,000 (Rats & Mice)
Eye Irritation:	Non-irritating to rabbit eye. (PVP)
Skin Irritation:	Non irritating (Human RIPT). (PVP)
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.
Teratogenicity:	Non-teratogenic
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.
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

Persistence and Degradability:	Readily Biodegradability: Not readily biodegradable (11% in 28 Days) (PVP)
Ecotoxicity:	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.
Bioaccumulative Potential:	Not determined
Mobility:	Not determined

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:	Dispose of in accordance with local regulations.
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14. TRANSPORT INFORMATION

Land Transport:

DOT (Non-Bulk):

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

DOT (Bulk):

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

Air Transport (IATA):

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

Sea Transport (IMO):

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

ADR:

UN:	NONE
Proper Shipping Name:	NOT REGULATED
CLASS:	NONE

15. REGULATORY INFORMATION

Classification: According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.

According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.

TSCA Inventory List: This product and/or its components are listed or exempt from the TSCA Inventory

California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

Canada DSL Inventory List: This product and/or its components are listed or exempt from the DSL Inventory

Canada NDSL Inventory List: This product and/or its components does not comply with NDSL

European Inventory of Existing Commercial Chemical Substances (EINECS): This product and/or its components are listed or exempt from the EINECS Inventory

EU List of Notified Chemical Substances (ELINCS) This product and/or its components does not comply with ELINCS

Components:	Germany VCI Assigned Classification into Water Endangering Classes (WGK) List:
2-Pyrrolidinone, 1-Ethenyl-, Homopolymer 9003-39-8	Annex 3: ID Number 2082, hazard class 1 - low hazard to waters

Japan Inventory of Existing & New Chemical Substances (ENCS): This product and/or its components are listed or exempt from the ENCS

Australia Inventory of Chemical Substances (AICS) List: This product and/or its components are listed or exempt from the AICS Inventory

16. OTHER INFORMATION

Prepared By: Product Stewardship

Revision Date: 02/17/2009

MSDS sections updated: This data sheet contains changes from the previous version in section(s) 2,3,5,6,7,8,11,13 and 15

Legend: N.Av.= Not Available; N.A.= Not Applicable

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*****End of Safety Data Sheet*****