

PVC002B

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Formosa Plastics Corporation, U.S.A.

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name:

Formolon® PVC Compound (AW02, AWS--)

Synonyms:

PVC, suspension polyvinyl chloride compound, chloroethylene polymer

Manufacturer:

Formosa Plastics Corp., Texas

201 Formosa Drive

Point Comfort, TX 77978

Telephone:

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MSDS@fpcusa.com

Emergency Contact:

CHEMTREC (24 hrs) at +1 (800) 424-9300 (United States, Canada, Puerto Rico,

Virgin Islands) or +1 (202) 483-7616 (Other Countries)

Product Code:

AW02, AWS--

Product Use:

Rigid PVC compound resin for extrusion applications

Physical Description:

White powder. Color may occasionally vary based product specification.

Formula:

(C2H3CI)n plus functional additives

2. HAZARD IDENTIFICATION

Emergency Overview:

WARNING!

- Causes serious eye irritation.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.
- Suspected of causing genetic defects.
- Dust may form an explosive atmosphere when dispersed in air.

3. PRODUCT INGREDIENTS

Components
PVC Resins

Percent (%)

75 - 99

CAS Number:

9002-86-2

GHS Classification:

Not hazardous according to GHS criteria.





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Calcium Carbonate

< 20

CAS Number:

1317-65-3

GHS Classification:

Eye Dam. 1, Skin Irrit. 2, STOT-SE 3; H318, H315, H335

Acrylic Polymer Impact Modifier

< 10

CAS Number:

Mixture

GHS Classification:

Eve Irrit. 2B, Skin Irrit. 2, STOT-SE 3; H320, H315, H335

Acrylic Polymer Processing Aid

< 5

CAS Number:

Mixture

GHS Classification:

Eve Irrit. 2B, Skin Irrit. 2, STOT-SE 3; H320, H315, H335

Heat Stabilizers

1 - 5

CAS Number:

Mixture

GHS Classification:

Eye Irrit. 2B, Skin Irrit. 2, STOT-SE 3, Skin Sens. 1, STOT-RE2, Mut 2; H320, H315,

H335, H317, H373, H341

A: FIRST AID MEASURES

Eye Contact:

In case of accidental contact, immediately flush eyes with water. Hold eyelids open

to ensure adequate flushing. Get medical attention.

Skin Contact:

Wash affected skin area with soap and water. Get medical attention if irritation or

other symptoms develop.

Inhalation:

Remove to fresh air. Get medical attention.

Ingestion:

If ingested dilute swallowed material by drinking water. Never give anything by

mouth to an unconscious person. Get medical attention.

Other Instructions:

Rescue personnel must wear appropriate protective equipment during removal of

victims from contaminated areas. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

Flash Point:

Not applicable

Kst Value:

21 bar.m/sec *

Max. Rate of Pressure Rise:

79 bar.m/s

Min. Ignition Energy:

>500 mJ (dust cloud)*

Min. Ignition Temperature:

1000 °F (540 °C) (dust cloud)*

Min. Explosible Concentration:

200 g/m3 (dust cloud) *

Dust Combustibility Rating:

St 1: Weak *

* - Combustibility data represent an approximate value based on internal testing. Actual values may vary depending on the composition/product grade.

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Extinguishing Media:

Dry chemical, foam, water or carbon dioxide.

Special Fire Fighting

Procedure:

In the event of a fire, wear a NIOSH (US) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing.

Evacuate all non-essential personnel from the danger area.

Unusual Fire & Explosion

Hazards:

Dust may form an explosive atmosphere when dispersed in air.

Hazardous Combustion

Products

When forced to burn, the major gaseous products of the combustion of PVC resin

are carbon monoxide, carbon dioxide and hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Restrict access to keep out unauthorized or unprotected personnel. Wear

appropriate personal protective equipment during all clean-up activities. Avoid

inhalation and direct contact.

Environmental Precautions:

Keep spilled material away from heat, sparks and open flames. Ensure adequate

ventilation.

Methods for Clean-Up:

Collect spilled material using a method that minimizes dust generation (e.g., wet methods, HEPA vacuum). Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken

containers.

7 HANDLING AND STORAGE

Handling:

Use with adequate ventilation. Avoid dust generation. Avoid contact with eyes and

skin. Accumulations of dust should be removed from settling areas. Take precautions against static discharge. Grounding of equipment and transfer

containers is recommended.

Storage:

Store in a cool, dry, well-ventilated area or silo away from sources of heat, flame and sparks. Ventilate enclosed storage areas before entering. Have emergency

equipment for fires and spills readily available.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Eye Protection:

Wear safety glasses with side shields, goggles or face shield for protection against

dust

Skin Protection:

Minimize contact with product. Wear gloves and/or suitable long-sleeved clothing.

Respiratory Protection:

An industrial hygiene risk assessment is required to determine the appropriate respiratory protection. A NIOSH (US) or CEN (EU) approved half-face, air-purifying

cartridge respirator may be appropriate under limited exposure conditions.

Engineering Controls:

Use local exhaust ventilation during dust producing operations.



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Required Work/Hygiene

Procedure:

Wash hands thoroughly after handling. Do not eat, drink or smoke in work area. Dusty clothing and shoes should be thoroughly cleaned before reuse. If unusual

exposures are expected, an industrial hygiene review of work practices, engineering

controls and personal protective equipment is recommended.

Exposure Guidelines:

Percent (%) 75 - 99.9

PVC Resins

15 mg/m3 (total dust), 5 mg/m3 (respirable dust)

OSHA PEL-TWA: ACGIH TLV-TWA:

1 mg/m³ (respirable dust)

Calcium Carbonate

(Particulates Not Otherwise Specified)

< 20

OSHA PEL-TWA:

15 mg/m³ (total dust), 5 mg/m³ (respirable dust)

ACGIH TLV-TWA:

10 mg/m³ (total dust), 3 mg/m³ (respirable dust)

Acrylic Polymers

(Particulates Not Otherwise Specified)

< 15

OSHA PEL-TWA:

15 mg/m³ (total dust), 5 mg/m³ (respirable dust)

ACGIH TLV-TWA:

10 mg/m³ (total dust), 3 mg/m³ (respirable dust)

PHYSIGALI/ACHEMICALIPROPERMIES

Physical Form:

Powder

Color:

White. Color may occasionally vary based product specification.

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Odor:

Odorless

Molecular Weight:

Ranging from 60,000 - 150,000

Boiling Point:

Not determined

Melting Point:

Not determined

Solubility in Water:

Insoluble 1.3 - 1.4

Bulk Density: Vapor Density:

Not determined (air = 1)

Evaporation Rate:

None (butyl acetate =1)

Vapor Pressure:

Not determined

% Volatile:

Negligible

pH:

Not determined

The physical data included above are typical values and should not be construed as a specification.

10 STABILITY & REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to Avoid:

Avoid elevated temperature above 250°C (482 °F). Keep away from strong oxidizing

agents, acids and bases.

Hazardous Decomposition:

Not expected to occur.

Hazardous Polymerization:

Not expected to occur.



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MATOXICOLOGYINECRMATION

Primary Route(s) of Exposure:

Inhalation; eye, skin contact.

Potential Health Effects:

Eye Contact:

May cause serious eye irritation.

Skin Contact:

May cause skin irritation. May cause an allergic skin reaction.

Inhalation:

May irritate and cause discomfort in nose and throat. Prolonged exposure may

cause adverse effects on lungs.

Ingestion:

Ingestion may cause nausea, dizziness, and abdominal pain.

Target Organ Effects:

This product contains an ingredient that has been shown to cause adverse effects to

the blood, kidneys and liver.

Developmental Effects:

No data available.

Mutagenicity:

This product contains an ingredient that is suspected of causing genetic defects.

Carcinogenicity:

This product contains trace amounts of vinyl chloride. Vinyl chloride is a suspect

cancer agent.

Medical Conditions

Aggravated by Overexposure:

Exposure may aggravate disorders of the eyes, skin, gastrointestinal tract,

respiratory system, blood, kidneys and liver.

Toxicological Data:

PVC Resins

Oral TDLo (Rat):

20 g/kg

Calcium Carbonate

Oral LD50 (Rat):

6450 mg/kg

24 Hour Draize Test (Rabbit):

Severe Eye Irritant, Moderate Skin Irritant

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Method:

This product must be disposed of in accordance with Federal, state and local

environmental regulations.

Recycling/Reclamation:

Recycling or reclamation of PVC resins should be encouraged where possible.

14. TRANSPORTATION INFORMATION

This product is <u>not</u> regulated as a hazardous material/dangerous good for all forms of transportation.



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15 REGULATORY INFORMATION

U.N. GHS Classification & Labeling Information:

Classification:

Eye Irritation 2A Skin Irritation 2 Skin Sensitizer 1 Mutagen 2

Specific Target Organ Toxicity (STOT) – Single Exposure 3 Specific Target Organ Toxicity (STOT) – Repeated Exposure 2

Signal Word:

WARNING

H Statements:

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.H335: May cause respiratory irritation.H341: Suspected of causing genetic defects.

H373: May cause damage to organs through prolonged or repeated exposure.

P Statements:

P307+313: If exposed, get medical attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P281: Use personal protective equipment as required.

P264: Wash thoroughly after handling.

P243: Take precautionary measures against static discharge.

NFPA 704 Information:

Health Rating:

1 1

Flammability Rating: Reactivity Rating:

0

Other Hazards:

Not applicable

U.S. Federal Regulatory Information:

EPA Clean Air Act:

Not listed

EPA Clean Water Act:

Not listed

TSCA: RCRA: The ingredients of this product are listed on TSCA inventory (40 CFR 710).

This product does not meet the EPA criteria for ignitability, corrosivity or reactivity. The toxicity characteristic has not been evaluated by the Toxicity Characteristic

Leaching Procedure (TCLP).

CERCLA RQ:

Not listed

SARA Title III § 302*:

None

SARA Title III § 311/312**:

Acute Health Hazard, Chronic Health Hazard

SARA Title III § 313***:

Not listed

Container Labeling:

Containers of PVC resin shall be labeled with the following statement as required by

29 CFR 1910.1017:

POLYVINYL CHLORIDE – CONTAINS VINYL CHLORIDE VINYL CHLORIDE IS A CANCER-SUSPECT AGENT



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U.S. State Regulatory Information:

Texas Effects Screening Level:

Short-term 50 ug/m³; Long-term 5 ug/m³ (PVC)

California:

Proposition 65: Warning - this product contains a chemical known to the State of

California to cause cancer. (Vinyl Chloride)

New Jersey: Pennsylvania:

NJ Worker & Community RTK Act (NJSA 34:5A1 et seq.) (Vinyl Chloride)

PA Worker & Community RTK Act (PA. Act 1984-1159) (Vinyl Chloride)

European Union Dangerous Substances/Preparations Directive: Information:

Risk Phrases:

R36/37/38: Irritating to eyes, respiratory system and skin

R43: May cause sensitization by skin contact

R68: Possible risk of irreversible effects if swallowed.

Hazard Pictogram:

Xn: Harmful

Safety Phrases:

S24/25: Avoid any inhalation, contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves.

S33: Take precautionary measures against static discharge.

Canadian Regulatory Information:

WHMIS Category:

Class D, Division 2, Subdivision B

Ingredient Disclosure List:

Not Listed

Domestic Substances List (DSL): Listed

Other Regulatory Information:

China:

Listed on Inventory of Existing Chemical Substances in China (IECSC)

16. OTHER INFORMATION

European Union Compliance:

This MSDS conforms to regulations 1907/2006/EC (REACH). This product has been

classified in accordance with 67/548/EEC, 1999/45/EC, 1272/2008 (CLP) and

amendments.

Prepared By:

Formosa Plastics Corporation USA

Corporate Environment, Safety & Communications Department

Revision History:

The February 16, 2011 version of this MSDS contains revisions to the following

sections:

Section 1 - Product Identification Section 2 - Hazard Identification

Section 3 - Product Ingredients

Section 8 - Exposure Controls & Personal Protection

Section 11 - Toxicological Information

Section 12 - Ecological Information

Section 15 – Regulatory Information

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