

Formosa Plastics Corporation, Texas Material Safety Data Sheet

MANUFACTURER	MSDS No:	PVC006
Formosa Plastics Corporation, Texas	Preparation Date:	12/14/2006
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I. PRODUCT IDENTIFICATION

Product Name: Compound PVC

Product Code: AB01, AGO I, APO I, AW--, APW--, AWS--, APURG, APWB-

Chemical Family: Polymer of Chlorinated Hydrocarbon

Chemical Name: Polyvinyl Chloride

CAS No: 9002-86-2

Synonyms: PVC, Chloroethylene Polymer, Compound PVC All Grades

Formula: (C₂H₃Cl)_n

Technical Information: (361) 987-7453

2. PRODUCT INGREDIENTS

No.	Components	CAS No.	Percent (%)	OSHA PEL
1	PVC Resins	9002-86-2	75-99	5 mg/M ³ (respirable)
2	Calcium Carbonate	1317-65-3	0-20	5 mg/M ³ (respirable)
3	Titanium Dioxide	13463-67-7	0-12	10 mg/M ³ (total dust)
4	Impact Modifier	Mixture	0-10	Not established
5	Wax	Mixture	0-7	Not established
6	Processing Aid	Proprietary	0 - 5	Not established
7	Calcium Stearate	1592-23-0	0-2	Not established
8	Tin Stabilizer	Mixture	0-2	Not established
9	Pigment	Mixture	0-0.5	Not established

3. PHYSICAL/CHEMICAL PROPERTIES

Physical Form: Powder

Color: Various colors based on product specification

Odor: Distinctive

Molecular Weight: Ranging from 60,000 - 150,000

Boiling Point: Not applicable

Melting Point: Not established

Freezing Point: Not applicable

Solubility in Water: None

Specific Gravity: 1.4 (water = 1)

Vapor Density: Not applicable (air = 1)

Evaporation Rate: None (Butyl Acetate = 1)

Vapor Pressure: Not Applicable

% Volatile: None

pH: Not Applicable

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

4. FIRE HAZARD DATA AND FIGHTING METHOD**Flash Point:** Not applicable**Autoignition:** Not applicable**Flammable Limits** Not applicable**In Air (LEL, %)****(UEL, %)** Not applicable**Extinguishing Media:** Dry chemical, foam water, or carbon dioxide**Special Fire****Fighting Procedure:** In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Evacuate all personnel from danger area. Use dry chemical, foam, water or carbon dioxide to extinguish fire.**Unusual Fire and Hazards:**

This product is nonflammable and nonexplosive under normal conditions of use. The minimum ignition energy for explosion of resin dust is much higher than that of natural materials such as corn starch and flour and also exceeds those of other plastic materials. The resin by itself will not continue to burn after ignition without an external fire source. However, materials such as wooden pallets, paper bags, cardboard boxes, and other combustibles can provide sufficient fuel to cause the product to burn. When forced to burn, the major gaseous products of the combustion of PVC resin are carbon monoxide, carbon dioxide, hydrogen chloride and water, but do not include vinyl chloride. The primary toxic combustion products are carbon monoxide and hydrogen chloride generated from incomplete combustion and carbon monoxide is the principal toxicant in fire atmospheres.

5. HUMAN HEALTH DATA**Emergency Overview:** Avoid inhalation or skin contact with Compound PVC powder**Primary Route(s) of Exposure:** Inhalation, Eye, Skin Contact**Potential Health Effects and Symptoms of Over-Exposure**

Eye Contact:	May cause eye irritation
Skin Contact:	May cause skin irritation
Inhalation:	May irritate and cause discomfort in nose and throat. Prolong exposure may cause adverse effects on lungs.
Ingestion:	Unlikely

Medical Conditions Aggravated by Overexposure:

Available toxicological information and the physical/chemical properties of the material suggests that there is no evidence that this product aggravates an existing medical condition.

Carcinogenicity:	NPT: No IARC: No OSHA: No
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6. FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with water for at least 15 minutes. Do not rub the eyes. If irritation develops, consult a physician.
Skin Contact:	Wash affected skin area with soap and water. If irritation develops, get medical attention.
Inhalation:	Remove to fresh air. If symptoms develop, seek immediate medical attention.
Ingestion:	This product is practically inert. If ingested, dilute swallowed material by drinking water. Induce vomiting. Obtain medical attention.
Notes to Physician:	Treat symptomatically and supportively.
Other Instructions:	Never give anything by mouth to an unconscious person.

7. EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

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:	Use NIOSH/MSHA approved dust respirators
Engineering Control:	Ventilation Requirements - Local Exhaust
Required Work/Hygiene Procedure:	Minimize contact with skin. Do not eat, drink, or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

Exposure Guidelines:

No.	Components	OSHA-PEL	ACGIH-TLV
Product	PVC	5 mg/M ³ (as respirable dust)	10 mg/M ³ (as nuisance dust)

8. ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills: Remove sources of ignition, use adequate ventilation and wear a dust respirator. Sweep, vacuum or shovel up the spill.

9. HANDLING AND STORAGE

Handling:	Use with adequate ventilation. Avoid contact with eyes and skin. As with handling of all powdered materials, accumulations of the product should be removed from settling areas to prevent any secondary potential dust explosion or fire hazards. Under normal thermoplastic processing, always use the product under well ventilated conditions to minimize breathing of vapor generated. Electrostatic charge may build up during handling. Grounding of equipment is recommended.
Storage:	Store in a cool dry, well-ventilated area or silo away from sources of heat, flame and sparks.
Container Use:	When opening railcar for unloading, ventilate before entering Containers for PVC resin shall be labeled as follows (per 29 CFR 1910.1017): POLYVINYL CHLORIDE CONTAINS VINYL CHLORIDE VINYL CHLORIDE IS A CANCER SUSPECT AGENT

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid elevated temperature above 250 degrees C.
Hazardous Decomposition:	If burned it will generate Carbon dioxide, Carbon monoxide, Hydrogen chloride.
Hazardous Polymerization:	Will not occur

11. DISPOSAL CONSIDERATIONS

Disposal Method:	It must be disposed of in accordance with Federal, State and local environmental control regulations.
Recycle/Reclaim:	Recycling or reclamation of Compound PVC resins should be encouraged where possible.

12. TRANSPORT INFORMATION

DOT Shipping Name:	Not listed
DOT Label:	Not applicable
DOT Hazard Class:	Not regulated
UN/NA Number:	Not applicable
Hazard Label(s):	Not regulated (See Section 9 of this MSDS)
Hazard Placard(s):	Not applicable
Packing Group:	Not applicable
Bulk Packaging:	Not applicable
RQ:	Not applicable
Emergency Response Guide (ERG) No.:	Not applicable

13. TOXICOLOGICAL INFORMATION

The information provided below can be subject to misinterpretation. Therefore, it is essential the following information be interpreted by individuals trained in its evaluation.

Chemical	Toxicity Data
PVC	ori-rat TDLo: 210g1kg/30W-C:ETA

14. ECOLOGICAL INFORMATION

No data is available on the adverse effects of this product on the environment. Neither COD or BOD data are available.

15. REGULATORY INFORMATION**FEDERAL REGULATORY INFORMATION**

OSHA Status:	Not listed
EPA Clean Air Act Status:	Not listed
EPA Clean Water Act Status:	Not listed
TSCA Status:	Listed on TSCA Inventory (40 CFR710)
CERCLA RQ:	Not listed

SARA Title III

Compound PVC

Section 302*

None

Section 313**

None

Section 311/312***

None

*Reportable quantity of extremely hazardous substance, Sec. 302

*Threshold planning quantity, extremely hazardous substance, Sec. 302

**Toxic chemical. See. 313

**Category as required by Sec 313 (40CFR372.65C). Must be used on Toxic Release Inventory form.

***Hazard category for SARA Sec.31 I/312 reporting H1=acute health hazard, H2=chronic health hazard, P3=fire hazard, P4=sudden release of pressure hazard, P5=reactive hazard

RCRA Status:	If disposed of in its purchased form, this would not be a RCRA hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261.20-24).
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OTHER REGULATORY INFORMATION

The following chemicals are specifically listed by individual states; other product-specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

State	Chemical	Regulation
Texas	PVC	Effects Screening Level (ESL) List: short term 50 ug/M ³ ; long
California		term 5 ug/M ³
		Proposition 65: warning - this product contains a chemical known to the State of California to cause cancer.

Product Name: Compound PVC**International**

United Kingdom Occupational Exposure Standards: TWAs total inhalable dust 10 mg/M³ TWA;
Respirable dust 5 mg/M³ TWA

Germany MAK Values: fine dust 5 mg/ M³ MAK

16. OTHER INFORMATION**NFPA**

Fire - 1

Health - 1

Reactivity - 0

Specific Hazard - None

HMIS

Health - 1

Flammability - 1

Reactivity - 0

Personal Protection Index - E

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