

Safety Data Sheet

according to OSHA HCS, NOM 018-STPS-2015, HPR Schedule 1

Date Printed: 01/09/2025

Version 10

Revision Date: 01/09/2025

* 1 Identification of the Substance/Mixture and of the Company/Undertaking

- **Product Identifier:** Formolon® PVC Compound
 - **Product Code:** All grades.
 - **Product Application:** Resin, extrusion and compounding, plastic molding, molded articles, films and coatings.
 - **Manufacturer/Supplier:**
Formosa Plastics Corporation, Texas
201 Formosa Drive
Point Comfort, TX 77978 USA
+1 (361) 987-7000
E-Mail: MSDS@fpcusa.com
 - **Business Division:** Vinyl/Suspension PVC
-
- **Emergency Telephone Number:**
In case of a chemical emergency, contact CHEMTREC (24 hrs) at:
+1 (800) 424-9300 (United States, Canada, Puerto Rico, Virgin Islands)
+1 (703) 527-3887 (International & Maritime)

* 2 Hazards Identification

- **Classification of the Substance or Mixture:**

Skin Irritation 2	H315 Causes skin irritation.
Eye Damage 1	H318 Causes serious eye damage.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 1A	H350 May cause cancer. Route of Exposure: Inhalation.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 2	H401 Toxic to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.
Combustible Dust	May form combustible dust concentrations in air.

- **Hazard Pictograms:**



GHS05 GHS07 GHS08

- **Signal Word:** DANGER
- **Hazard Statements:**
Combustible dust.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

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H350 May cause cancer. Route of Exposure: Inhalation.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H401 Toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.
 May form combustible dust concentrations in air.

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P240 Ground/bond container and receiving equipment.
 P261 Avoid breathing dust.
 P264 Wash thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF EXPOSED OR CONCERNED: Get medical attention.
 P363 Wash contaminated clothing before reuse.

NFPA Ratings (scale 0 - 4):

Additional Information:

If you do not understand the hazards or safety precautions described in this data sheet, contact your supervisor or safety administrator before handling this product.

* 3 Composition/Information on Ingredients

Chemical Characterization: Mixtures
CAS No. Description

9002-86-2 polyvinyl chloride	55-95%
471-34-1 calcium carbonate	<20%
PVC compound impact modifier	<10%
⚠ Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335; Eye Irritation 2B, H320; Combustible Dust	
13463-67-7 titanium dioxide	<12%
⚠ Carcinogenicity 2, H351	
PVC compound processing aid	
Combustible Dust	
tin heat stabilizer	<5%
⚠ Germ Cell Mutagenicity 2, H341; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Eye Damage 1, H318; ⚠ Aquatic Chronic 1, H410; ⚠ Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Sensitization - Skin 1A, H317	

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14808-60-7 Crystalline silica (quartz)

≥0.1%

 Carcinogenicity 1A, H350

*** 4 First Aid Measures**

- **General information:** Provide symptomatic and supportive care.
 - **After Inhalation:**
Remove victim to fresh air.
Administer oxygen if breathing is difficult.
Administer artificial respiration if breathing has stopped.
Get immediate medical attention.
 - **After Skin Contact:**
Wash affected area with soap and water.
Get immediate medical attention.
 - **After Eye Contact:**
In case of accidental contact, immediately flush eyes with water.
Hold eyelids open to ensure adequate flushing.
Get immediate medical attention.
 - **After Swallowing:**
Administer 1-2 glasses of water to dilute ingested material.
Never give anything by mouth to an unconscious person.
Get immediate medical attention.
 - **Most Important Symptoms and Effects:** No further relevant information available.
-

*** 5 Firefighting Measures**

- **Suitable Extinguishing Agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
 - **Special Firefighting Hazards:** Combustible dust. May form combustible dust concentrations in air.
 - **Dust Explosivity (Kst) Rating:** St 1 - Weak to moderate explosive dust (Kst = 0-200 bar-meter/second)
 - **Protective Equipment:**
In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved self-contained breathing apparatus (SCBA) and full protective clothing.
-

*** 6 Accidental Release Measures**

- **Personal Precautions, Protective Equipment and Emergency Procedures:**
Restrict access to keep out unauthorized or unprotected personnel.
Wear appropriate personal protective equipment during all clean-up activities. See Section 8 for more information.
Avoid inhalation and direct contact.
- **Environmental Precautions:** Keep spilled material out of sewage/drainage systems and waterways.

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- **Methods for Containment and Clean-Up:**

Collect spilled material using a method that controls dust generation such as a high efficiency particulate air (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.

- **Reference to Other Sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

*** 7 Handling and Storage**

- **Precautions for Safe Handling:**

Avoid inhalation and direct contact.

Avoid dust formation.

Accumulations of dust should be removed from settling areas.

- **Protection Against Fires and Explosions:**

Take precautions against static discharge.

To determine required precautions, consult applicable standards such as NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (latest edition), and NFPA 499, Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas.

Transfer and store in properly bonded and grounded containers.

- **Conditions for Safe Storage, Including Any Incompatibilities:**

Store in closed, properly labeled containers.

Protect containers from heat, physical damage, ignition sources and incompatible materials.

Have emergency equipment for fires and spills readily available.

- **Additional Information:**

If you do not understand the hazards or safety precautions described in this data sheet, contact your supervisor or safety administrator before handling this product.

*** 8 Exposure Controls/Personal Protection**

- **Occupational Exposure Limits:**

Use occupational exposure limits for dust when controlling exposure to this product.

9002-86-2 polyvinyl chloride

EL (Canada) Eight-Hour Value: 1 mg/m³

VLE (Mexico) Eight-Hour Value: 1* mg/m³
A4, *fracción respirable

TLV (USA) Eight-Hour Value: 1* mg/m³
*as respirable fraction, A4

471-34-1 calcium carbonate

PEL (USA) Eight-Hour Value: 15* 5** mg/m³
*total dust **respirable fraction

REL (USA) Eight-Hour Value: 10* 5** mg/m³
*total dust **respirable fraction

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TLV (USA)	TLV withdrawn
13463-67-7 titanium dioxide	
EL (Canada)	Eight-Hour Value: 10* 3** mg/m ³ *total dust;**respirable fraction; IARC 2B
EV (Canada)	Eight-Hour Value: 10 mg/m ³ total dust
VLE (Mexico)	Eight-Hour Value: 10 mg/m ³ A4
PEL (USA)	Eight-Hour Value: 15* mg/m ³ *total dust
REL (USA)	See Pocket Guide App. A
TLV (USA)	Eight-Hour Value: 0.2* 2.5** mg/m ³ resp. fraction, *nanoscale,**finescale, A3

14808-60-7 Crystalline silica (quartz)

EL (Canada)	Eight-Hour Value: 0.025 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	Eight-Hour Value: 0.10* mg/m ³ *respirable fraction
VLE (Mexico)	Eight-Hour Value: 0.025* mg/m ³ A2, *fracción respirable
PEL (USA)	Eight-Hour Value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL (USA)	Eight-Hour Value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV (USA)	Eight-Hour Value: 0.025* mg/m ³ *respirable particulate matter, A2

tin heat stabilizer

PEL (USA) Eight-Hour Value	0.1 mg/m ³
TLV (USA) Short-Term Value	0.2 mg/m ³
Eight-Hour Value	0.1 mg/m ³

- **Exposure Controls:** Use local exhaust ventilation during dust or mist producing operations.
- **Personal Protective Equipment:**
- **General Protective and Hygienic Measures:**
Wash thoroughly after handling.
Avoid contact with the eyes and skin.
- **Respiratory Protection:**
An industrial hygiene risk assessment is required to determine appropriate respiratory protection.
- **Hand Protection:**



Work gloves.

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- **Eye/Face Protection:**



Safety glasses with side shields.

- **Body Protection:** Protective work clothing

- **Additional Information:**

If unusual exposures are expected, an industrial hygiene review of work practices, engineering controls and personal protective equipment is recommended.

* 9 Physical/Chemical Properties

- **Information on Basic Physical and Chemical Properties**

- **Appearance:**

Physical State: Solid

Color: White

- **Odor:** Odorless

- **Odor Threshold:** Not determined.

- **pH:** Not applicable.

- **Melting Point/Freezing Point:** Not determined.

- **Boiling Point:** Not determined.

- **Flash Point:** Not applicable.

- **Flammability:** Not determined.

- **Autoignition Temperature:** Not determined.

- **Decomposition Temperature:** Not determined.

- **Auto-Ignition Temperature:** Not determined.

- **Explosion Limits:**

Lower Explosive Limit (LEL): Not determined.

Upper Explosive Limit (UEL): Not determined.

- **Vapor Pressure:** Not determined.

- **Density:** Not determined.

- **Vapor Density:** Not determined.

- **Evaporation Rate:** Not determined.

- **Solubility:**

Water: Insoluble.

- **Partition Coefficient (n-octanol/water):** Not determined.

- **Viscosity:** Not determined.

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· **Other Information:** No further relevant information available.

*10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
 - **Chemical Stability:** Stable if used and stored according to the specifications listed below.
 - **Conditions to Avoid:**
Combustible dust. May form combustible dust concentrations in air.
Keep away from heat, sparks and open flames.
Avoid dust formation.
 - **Possibility of Hazardous Reactions/Incompatible Materials:** No dangerous reactions known.
 - **Hazardous Decomposition Products:** No data available.
-

*11 Toxicological Information

- **Acute Toxicity:** Based on available data, the classification criteria are not met.
 - **Skin Irritation:** Causes skin irritation.
 - **Respiratory Irritation:** May cause respiratory irritation.
 - **Respiratory or Skin Sensitization:** May cause an allergic skin reaction.
 - **Subacute to Chronic Toxicity:**
Suspected of causing cancer. Route of Exposure: Inhalation.
Suspected of causing genetic defects.
Suspected of damaging fertility or the unborn child.
Adverse liver effects.
Adverse kidney effects.
Adverse blood effects.
Adverse nervous system effects.
Harmful if swallowed.
Adverse cardiovascular effects.
Adverse urinary tract effects.
 - **Additional Toxicological Information**
May cause damage to organs through prolonged or repeated exposure.
 - **Carcinogen Classification:**
 - **Substances Classified by IARC (International Agency for Research on Cancer):**
 - 9002-86-2 polyvinyl chloride: 3
 - 13463-67-7 titanium dioxide: 2B
 - 14808-60-7 Crystalline silica (quartz): 1
 - **Substances Classified by NTP (National Toxicology Program):**
 - 14808-60-7 Crystalline silica (quartz): K
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· **Endocrine Disrupting Properties:**

None of the ingredients is listed.

* 12 Ecological Information

- **Aquatic Toxicity:** Harmful to aquatic life with long lasting effects.
- **Persistence and Degradability:** No data available.
- **Bioaccumulative Potential:** No data available.
- **Endocrine Disrupting Properties:**
The product does not contain substances with endocrine disrupting properties.

* 13 Disposal Considerations

- **Disposal Instructions:**
Dispose of waste in accordance with applicable laws and regulations.
Maximize product recovery for reuse or recycling.

* 14 Transport Information

- **UN Number:**
- **DOT, ADR, ADN, IMDG, IATA** Not applicable.
- **UN Proper Shipping Name:**
- **DOT, ADR, ADN, IMDG, IATA** Not applicable.
- **Transport Hazard Class(es):**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class:** Not applicable.
- **Packing Group:**
- **DOT, ADR, IMDG, IATA** Not applicable.
- **Environmental Hazards:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **Additional Information:**
- **DOT:**
- **Remarks:** This product is not regulated as a hazardous material/dangerous good for transportation.

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*15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **U.S. Superfund Amendments & Reauthorization Act (SARA) 355 (Extremely Hazardous Substances):**

None of the ingredients is listed.

· **U.S. Superfund Amendments & Reauthorization Act (SARA) 313 (Specific Toxic Chemical Listings):**

None of the ingredients is listed.

· **U.S. Toxic Substances Control Act (TSCA):**

9002-86-2 polyvinyl chloride

471-34-1 calcium carbonate

PVC compound impact modifier

13463-67-7 titanium dioxide

PVC compound processing aid

tin heat stabilizer

14808-60-7 Crystalline silica (quartz)

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **California Proposition 65 Carcinogens:**

PVC resin contains minor amounts (< 1 ppm on average; 0.0001%) of residual vinyl chloride monomer. Vinyl chloride is listed as a carcinogen under Proposition 65.

13463-67-7 titanium dioxide

14808-60-7 Crystalline silica (quartz)

· **New Jersey Right-to-Know List:**

9002-86-2 polyvinyl chloride

13463-67-7 titanium dioxide

14808-60-7 Crystalline silica (quartz)

· **New Jersey Special Hazardous Substance List:**

14808-60-7 Crystalline silica (quartz): CA

· **Pennsylvania Right-to-Know List:**

13463-67-7 titanium dioxide

14808-60-7 Crystalline silica (quartz)

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **Carcinogen Categories:**

· **ACGIH (American Conference of Governmental Industrial Hygienists) Carcinogens:**

9002-86-2 polyvinyl chloride: A4

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13463-67-7 titanium dioxide: A4

14808-60-7 Crystalline silica (quartz): A2

• U.S. NIOSH (National Institute for Occupational Safety and Health) Carcinogens:

13463-67-7 titanium dioxide

14808-60-7 Crystalline silica (quartz)

• Canadian Substance Listings:

• Canadian Domestic Substances List (DSL):

9002-86-2 polyvinyl chloride

471-34-1 calcium carbonate

13463-67-7 titanium dioxide

tin heat stabilizer

14808-60-7 Crystalline silica (quartz)

• Canadian Non-Domestic Substances List (NDSL)

None of the ingredients is listed.

• Canadian Ingredient Disclosure List (limit 0.1%)

None of the ingredients is listed.

• Canadian Ingredient Disclosure List (limit 1%):

None of the ingredients is listed.

• GHS Label Elements:

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard Pictograms:



GHS05 GHS07 GHS08

• Signal Word: DANGER

• Hazard Statements:

Combustible dust.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350 May cause cancer. Route of Exposure: Inhalation.

H361 Suspected of damaging fertility or the unborn child.

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

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

May form combustible dust concentrations in air.

• Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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P240	Ground/bond container and receiving equipment.
P261	Avoid breathing dust.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF EXPOSED OR CONCERNED: Get medical attention.
P363	Wash contaminated clothing before reuse.

- **Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.
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*16 Other Information

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Formosa Plastics Corporation, U.S.A. at the time it was prepared. Formosa Plastics Corporation, U.S.A. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, Formosa Plastics Corporation, U.S.A. and its subsidiaries cannot guarantee that these are the only hazards that exist. Formosa Plastics Corporation, U.S.A. assumes no legal responsibility for loss, damage or expense arising out of, or in any way connected with, the handling, storage, use or disposal of this product.

- **Department Issuing Safety Data Sheet:** Corporate Environment, Health & Safety

- **Abbreviations & Acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

NIOSH: National Institute for Occupational Safety

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1A: Skin sensitisation – Category 1A

Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2

Carcinogenicity 1A: Carcinogenicity – Category 1A

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **Sources & References:** * - Indicates that data has been updated from the previous version.