



Safety Data Sheet

Product name: FORMOCON®

FM025/025E/025LV/025UV/FM025LCf、R6/R6LMD/R6LV/R6UV/ R6LCf、

FM090/090LMD /090LV/090UV/090LCf、FM130/130LMD/130LV/130UV/130LCf、

FM270/270LMD /270LV/270UV/270LCf、FM450/450LCf

Version number : 3.7

Revised date : 10/26/2023

1. Product and Company Identification:

Product name: FORMOCON

Synonyms: POLYOXYMETHYLENE COPOLYMER, ACETAL COPOLYMER

Company: FORMOSA PLASTICS CORP.

POLYPROPYLENE DIVISION, POM PLANT

Emergency contact: 886-5-3772111 EXT 125/127

2. Hazards Identification:

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

The substance is classified according to the CLP regulation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC None
- Information concerning particular hazards for human and environment: Not applicable.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008: None
- Hazard pictograms : None
- Signal word : None
- Hazard statements : None

2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

Pellets or powder with slight to no odor. Combustion and decomposition may produce hazardous fumes. Molten material can cause thermal burns on contact with skin or eyes.

Spilled flakes may create a slipping hazard. Overheating may result in release of formaldehyde, which may irritate the eyes and respiratory tract.

3. Composition/Information on Ingredients:

Substance / Preparation: Mixture

Chemical Name: Polyoxymethylene copolymer, POM

Chemical Formula: $(\text{CH}_2\text{O})_n-(\text{CH}_2\text{CH}_2\text{O})$

Ingredient	CAS number	Content (%)
POM (Base Resin)	24969-26-4	≥99.0
Additives	--	≤1.0

<Remarks>

This is a polymeric material and may contain proprietary ingredients. And hazardous constituents are wetted by the polymer system, and therefore, present no likelihood of exposure under normal conditions of processing and handling. This product is considered hazardous under OSHA Regulations, if overheated, of formaldehyde, an OSHA regulated material.

4. First Aid Measures:

Skin Contact : If hot or molten polymer or hot vapors contact skin, cool rapidly with cold water. If polymer is stuck to skin, do not remove. Seek medical attention. Allow adhered polymer to come off naturally. Removal of adhered polymer may result in more tissue damage than if polymer is allowed coming off over time.

Eye Contact : Flush with plenty of water. Seek medical attention if discomfort persists, and to remove foreign body.

Inhalation : Move affected person to fresh air. Seek medical attention if breathing difficulties occur.

Ingestion : If significant quantity has been swallowed, give two glasses of water to dilute. Seek medical attention.

Summary of the most important symptoms and effects:--

Protection of first aid personnel:--

Tips for physicians:--

5. Fire Fighting Measures

Suitable Extinguishing Media : water mist; carbon dioxide; foam ;dry powder.

Extinguishing Media Which Must Not Be Used For Safety Reasons: high volume water jet.

Exposure Hazards: Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapors .Do not release chemically contaminated water into drains, soil or surface waters .Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

Special Protective Equipment for Firefighters:

Use full protective clothing for chemicals and self-contained breathing apparatus.

6. Accidental Release Measures:

Personal Precautions : Do not breathe dust Avoid ignition sources. Avoid contact with skin, eye and clothing.

Environmental Precautions: Prevent contamination of soil, drains and ignition sources.

Methods for Cleaning up : Take up mechanically and place in suitable, closable container for disposal, avoiding formation of dust.

7. Handling and Storage:

Handling : Handle and open container with care. Avoid dust formation and ignition sources. Ensure good ventilation and local exhaust. Do not eat, drink or smoke at the workplace.

Storage : Keep away from food and drink. Store in the original container securely closed, keep in cool, dry place.

Further Information: This product can form an explosive dust/air mixture. Do not compound with PVC (polyvinyl chloride). Take precautionary measures against static's discharges, e.g. by using proper earthly techniques.

8. Exposure Controls/Personal Protection:

8.1. Exposure controls

- Local Exhaust (Local ventilation system) : Recommended when appropriate to control employee exposure to dust or process vapors.
- General : May not be adequate as the sole means to control employee exposure.

8.2. Protective Equipment

- Eyes : Safety eyewear recommended
- Skin : When thermal or melt processing, wear long pants, long sleeves, well insulated gloves and face shield when there is a chance of contact.
- Inhalation : A NIOSH approved respirator is recommended if there is a possibility of dust generation above permissible exposure limits or that decomposition vapors may be generated.

8.3. Control parameter

- Operations involving grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standard. Formaldehyde is a hazardous degradation product..

Ingredient	Agency		Value
	OSHA	PEL	
Formaldehyde	ACGIH	TLV	CEILING - 0.3ppm
	OSHA	PEL	15 mg/m ³ (Total), 5 mg/m ³ (Respiration)
Nuisance dust (Nuisance Particulates)	ACGIH	TLV	10 mg/m ³ (Total), 3 mg/m ³ (Respiration)
	OSHA	PEL	15 mg/m ³ (Total), 5 mg/m ³ (Respiration)

9. Physical and Chemical Properties:

- Physical Form : Solid / Pellets
 - Odor : Slight, specific
 - Odor threshold : No data available
 - pH Value : Not applicable
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- Melting Point : 165°C(329°F)
 - Boiling Point and Range : Not applicable (Solid)
 - Flash Point : > 320°C (> 608°F) by Tag Closed Cup Method.
 - Evaporation rate : Not applicable
 - Inflammability : No data available
 - Explosion range : No data available
 - Vapor Pressure : < 0.001mm Hg
 - Water Solubility : Negligible < 0.1%
 - Relative vapor density : Not applicable
 - Specific gravity : 1.41
 - Partitioning coefficient n-octanol / water : No data available
 - Ignition temperature : 400°C (752°F) or Higher
 - Decomposition temperature : > 240 °C
 - Viscosity : Refer to the grade data sheet
 - Molecular weight : Not applicable
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10. Stability and Reactivity

Chemical stability: Stable under ordinary conditions of use and storage.

Conditions to avoid: Strong acids and oxidizing agents. Do not compound with PVC or other chlorine containing polymers (to avoid acid formation).

Hazardous decomposition Products: Formaldehyde,

11. Toxicological Information:

No specific information available on this product.

12. Ecological Information:

Biodegradability: No data available.

Bioaccumulation: No data available.

Fish Toxicity: Not known.

13. Disposal Considerations:

Recycling is encouraged. Dispose of waste by incineration, sanitary landfill or other method in accordance with all applicable local, state, and federal laws and regulations

14. Transport Information:

- UN No : Not classified as a dangerous good under transport regulations. (UN RTDG)
 - Land transport (ADR/RID) : Not classified
 - Shipping information (IMDG) : Not classified
 - Air transport (IATA/ICAO) : Not classified
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15. Regulatory Information:

- Labeling according to EEC directive: Not required
 - compliant with EC 1907/2007 and REACH declaration
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16. Other Information:

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation .The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. However, FORMOSA PLASTICS CORP. 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 health hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.