

Material Safety Data Sheet (MSDS)

Product Name : CP POLYMER CP20E (All Color)

Revision Date : Mar. 1, 2020 (Rev.0)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

■ Product Identifier : CP20E (All Color)

■ Chemical Name(s) : Polyoxymethylene, Polyacetal copolymer

■ Product application : Engineering Plastics

■ Characteristics of Product : Thermoplastic Compound for General Injection Processing

■ Details of the supplier of the safety data sheet

Company Identification

C&P Corporation

101-522, SK Ventium, 166 Gosan-ro, Gunpo-si, Gyeonggi-do, Korea

Tel) +82-31-453-3451 Site) www.cppolymer.com

Manufacturer Information

C&P Corporation Jincheon plant

108, Sincheoksandan 4-ro, Deoksan-myeon, Jincheon-gun, Chungcheongbuk-do, Korea

Tel) +82-43-532-0847

Institute of Technology, R&D Manager

2. COMPOSITION / INGREDIENT INFORMATION

※ ADDITIONAL COMPOSITION / INGREDIENT INFORMATION

→ Information provided on hazardous components applies to their pure, dry form. Because these components are encapsulated in plastic, exposure is negligible in normal handling.

■ Ingredients

Chemical Name	CAS number	Content(%)
Polyacetal Copolymer		
(1,3,5-Trioxane, polymer with 1,3-dioxolane)	24969-26-4	75 ± 5
Impact modifier	-	20 ± 5
Stabilizer etc.	-	< 5

※ Information of impurity in this product: Formaldehyde (CAS No: 50-00-0) < 0.1%

3. HAZARD IDENTIFICATION

※ Route of Entry

→ Inhalation? Yes

→ Skin? No

→ Ingestion? Yes

■ Acute Effect / Hazards

- ▷ This product is an odorless pellet.
- ▷ These pellets are slippery and can cause falls if walked upon.
- ▷ The material is not likely to present a hazard from ingestion, inhalation, or skin contact during normal use.
- ▷ Any additives are encapsulated and are not likely to be released except under unusual conditions such as high temperature and certain grinding operations.

■ Symptoms of over-exposure

- ▷ Chronic and Carcinogen hazards
 - Chronic hazards : No chronic effects known
 - Carcinogen or Suspected(yes/no)? No
 - NTP : No LARC : No OSHA : No

4. FIRST AID MEASURES

※ The first aid information below is for product at ambient temperature.

■ First Aid Eyes

- ▷ Flush with water for 15min

■ First Aid Skin

- ▷ Wash skin with soap and water

■ First Aid Inhalation

- ▷ Remove person to fresh air

■ First Aid Ingestion

- ▷ Unlikely to be required

5. FIRE AND EXPLOSION DATA

※ Flashpoint (°C) : Not Applicable

LEL : NA

UEL : NA

■ Fire Fighting Measurement

- ▷ Extinguish Media : Foam, CO₂, Dry Chemical, H₂O Spray
- ▷ Fire Fighting Procedures
 - As Plastic or Rubber Fire
 - Wear protective clothing
- ▷ Protective Equipment : NIOSH/MSHA Approved Respirator
- ▷ Unusual Fire and Explosion Hazards
 - Dense black smoke can liberate, if burned without oxygen.
- ▷ Dust Explosive Hazard
 - Hazardous decomposition fumes are possible including carbon dioxide, carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

■ Protective Equipment : Use appropriate skin and eye protection

■ Small Spill

- ▷ Shovel or Scoop up
- ▷ Solid residue waste disposal

7. HANDLING AND STORAGE

■ Storage Temperature : Ambient

■ Storage Pressure : Atmospheric

■ Storage and Handling Procedures

- ▷ Keep away from ignition source

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

■ Control parameters

Formaldehyde : OSHA/PEL TWA - 0.75 ppm, STEL - 2ppm

ACGIH/TLV TWA - 0.1 ppm, STEL - 0.3ppm

Nuisance dust : OSHA/PEL 15 mg/m³ (Total), 5 mg/m³ (Respirable)

ACGIH/TLV 10 mg/m³ (Total), 3 mg/m³ (Respirable) [Recommended]

■ Exposure Guidelines and Controls

- ▷ Control airborne dust concentration below exposure limits. OSHA Permissible Exposure Limit for nuisance dust is 15 mg/m³ . 8hour TWA. ACGIH Threshold Limit Value for particulates not otherwise classified is 10 mg/m³ . 8 hour TWA.

■ Respiratory protection

- ▷ None for normal use. When required, use NIOSH approved respiratory protection.
 - Glove protection : Recommended
 - Eye protection : Safety glasses with side shields

9. PHYSICAL AND CHEMICAL PROPERTIES

■ Appearance : Pellet

■ Odor : Slight, specific

■ Physical State : Solid

■ Boiling Point (°C) : ND

■ Melting Point (°C) : approx. 165 °C

■ Evaporation Rate : ND

■ pH : ND

■ Vapor Density (Air = 1) : NA

■ Solubility in water : NA

■ Vapor Pressure : Negligible

■ Volatiles (lbs/gallon) : ND

■ Density : 1.27 - 1.40 g/cm³ (23 °C)

■ Decomposition temperature : > 240 °C

10. STABILITY AND REACTIVITY

- Stability : Stable
- Hazardous Polymerization : No

11. TOXICOLOGICAL INFORMATION

- ▷ No specific toxicity tests have been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and professional experience.
- ▷ Acute toxicity of this class of materials is very low.
- ▷ Dense dust generated by the handling and / or processing of this material may be irritating to the eyes, nose, and throat

12. ECOLOGICAL INFORMATION

- ※ Ecological test has not been conducted on this product.

13. DISPOSAL CONSIDERATIONS

- ※ Incinerate or landfill in compliance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

- US DOT : Not regulated as a hazardous material or dangerous goods for transportation.
- ICAO/IATA : Not regulated as a hazardous material or dangerous goods for transportation.
- IMO/IMDG : Not regulated as a hazardous material or dangerous goods for transportation.
- RID/ADR : Not regulated as a hazardous material or dangerous goods for transportation.

15. REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization Act) :

- Fire : No
- Immediate : No
- Delayed : No
- Sudden Release : No
- Reactive : No
- CERCLA Reportable Quantity : Not Regulated
- Section 302 : Not Regulated
- Section 304 : Not Regulated

16. OTHER INFORMATION

This material safety data sheet and the information therein is offered to you in good faith as accurate. We believe the information to be correct but cannot guarantee its accuracy or completeness. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No warranty is made, either express or implied.

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