

# Material Safety Data Sheet

(Bad file name or number)

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<b>Product name</b>	TOPAS COC		EMNA/EN
<b>MSDS number</b>	TP03	<b>Revision Date</b>	Jun.19.2006
<b>Revision Number</b>	2.02	<b>Issuing date</b>	Jun.05.2007

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## 1. Product and company identification

**Product name**

### **Topas® Cyclic Olefin Copolymers**

**Manufacturer, importer, supplier**

Topas Advanced Polymers, Inc.  
8040 Dixie Hwy.  
Florence, KY 41042  
United States

**Product Information**

+49 (0)1805-1-86727

**End use:**

injection molding articles for optical industry, packaging Industry, medical articles

## 2. Hazards identification

### **Emergency Overview**

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200)

### **Product Description**

**Appearance**

<b>Form</b>	granules
<b>Odor</b>	almost odourless characteristic
<b>Colour</b>	colourless

### **Potential health effects**

**Routes of exposure**

Skin, eyes, inhalation.

**Immediate effects**

**Inhalation**

No information available May cause respiratory tract irritation Overheating in processing may generate hazardous, irritating vapours

**Skin**

No information available Hot or molten material has the potential to cause thermal burns Polymer particles may cause mechanical irritation

**Eyes**

No information available Hot or molten material has the potential to cause thermal burns Resin particles, like other inert materials, are mechanically irritating to eyes

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## Ingestion

No information available Essentially non-toxic based on biological activity of high molecular weight polymers

## Delayed / long-term effects

No information available

## 3. Composition/information on ingredients

**Chemical characterization** contains ethylene-norbornene copolmer (CAS 26007-43-2)

## Remarks

The following specific grades of Topas are covered by this MSDS:  
5010X1; 5010X2; 5013X6; 5013X10; 5013X14; 5013X15; 5013X16; 5013X25;  
6013D-50; 6013X12; 6013X14; 6013X18; 6015X13; 6018X1; 8007D-50; 8007D-61;  
8007X2; 8007X4; 9506X4; 9506X5

## 4. First aid measures

### General Information

Wash contaminated clothing before re-use.

### Inhalation

Move to fresh air. If symptoms persist, call a physician.

### Skin

Cool skin rapidly with cold water after contact with molten polymer. Obtain medical attention.

### Eyes

Resin particles, like other inert materials, are mechanically irritating to eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

### Ingestion

If swallowed, seek medical advice immediately and show this container or label. If conscious, drink plenty of water. Do not induce vomiting without medical advice.

### Note to physician:

This product is essentially inert and non-toxic Under conditions of thermal decomposition irritant gases may be formed Exposed patients may need to have their arterial blood gases and carboxyhemoglobin levels checked

## 5. Fire-fighting measures

**NFPA:** Health: 1

**Flammability:** 1

**Instability:** 0

### Suitable extinguishing media

water spray, foam, dry powder, carbon dioxide (CO2)

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## Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

## Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of  
carbon monoxide  
carbon dioxide (CO<sub>2</sub>)  
Combustion gases of organic materials must in principle be graded as inhalation poisons

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Environmental precautions

Dike and collect water used to fight fire.

## Other Information

Cool containers / tanks with water spray. Keep people away from and upwind of fire.

## 6. Accidental release measures

### Environmental precautions

Not readily biodegradable. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### Methods for cleaning Up

Shovel or sweep up. Like most thermoplastic plastics the product can be recycled. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

## 7. Handling and storage

### Handling

#### Advice on safe handling

Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. .

#### Protection - fire and explosion:

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge. Avoid dust formation.

### Storage

#### Technical measures/Storage conditions

Keep away from direct sunlight.

#### Material storage

Keep in a dry, cool and well-ventilated place.

#### Incompatible products

No special restrictions on storage with other products

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## 8. Exposure controls / personal protection

### OSHA Exposure Limits

Components	TWA
Total Dust	15 mg/m <sup>3</sup>
Respirable Dust	5 mg/m <sup>3</sup>

Components	TWA
Total Dust	10 mg/m <sup>3</sup>
Respirable Dust	3 mg/m <sup>3</sup>

### Exposure controls

#### Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

#### Protective Equipment

A safety shower and eyebath should be readily available.

#### General advice

Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use.

#### Respiratory protection

Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH.

#### Skin protection:

Wear impervious clothing and gloves when there is a reasonable chance for skin contact. When thermal or melt processing, wear well insulated gloves

#### Eye/face protection:

safety glasses with side-shields.

#### Comments:

Operations involving grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standards

## 9. Physical and chemical properties

### Appearance

Form	granules
Colour	colourless
Odor	almost odourless, characteristic.
Softening point	60 °C / 140 F
Specific Gravity	1.0 - 1.1

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## **9. Physical and chemical properties**

vapor pressure < 0.001 mm Hg @ 25°C  
Water solubility insoluble  
VOC Content(%) < 0.5 % (wt/wt)

## **10. Stability and reactivity**

### **Stability**

Stable under normal conditions of handling, use and transportation

### **Conditions to avoid**

Avoid temperatures above 350°C / 662F Product decomposes at elevated temperatures

### **Materials to avoid**

oxidizing agents

### **Hazardous reactions**

Hazardous polymerization does not occur

## **11. Toxicological information**

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

## **12. Ecological information**

Ecotoxicological data are not available. According to experience, the material has no harmful effect on the environment.

## **13. Disposal considerations**

### **Disposal Considerations:**

Recycling is encouraged Dispose of in accordance with local regulations This product as shipped is not a RCHA hazardous waste under present EPA regulations

## **14. Transport information**

US Department of Transportation Not regulated

ICAO/IATA not restricted

IMDG Not regulated

## **15. Regulatory Information**

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## 15. Regulatory Information

### U.S. FEDERAL REGULATIONS

This product complies with U.S. Toxic Substance Control Act (TSCA).

#### **SARA 313 Chemicals**

Contains no substances at or above the reporting threshold under Section 313.

## 16. Other information

### **Prepared By**

Product Stewardship Department  
OXEA

NFPA:	Health: 1	Flammability: 1	Instability: 0
HMIS:	Health: 0	Flammability: 1	Physical hazard: 0

For more information, consult the Technical Data Sheet ([www.topas.com](http://www.topas.com))

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Topas owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 2001/58/EC indicates, that no data meeting these requirements is available.

### **Other Information:**

Changes against the previous version are marked by \*\*\*

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Topas Advanced Polymers, Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.