

Material Safety Data Sheet



Product name	TOPAS COC		EMNA/EN
MSDS number	TP02	Revision Date	19.Jun.2006
Revision Number	2	Issuing date	19.Jun.2006

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

Transportation emergency phone numbers:

In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted

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

Form	granules
Odour	almost odourless
	characteristic
Colour	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

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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

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:
8007F-04; 8007F-100; 8007F-400; 9506F-04; 6013F-04; 6015X11

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. If polymer is stuck to skin, do not remove. Allow adhered polymer to come off naturally. Removal of adhered polymer may result in more tissue damages than if polymer is allowed to come off over time.

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

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5. Fire-fighting measures

NFPA: **Health:** 1 **Flammability:** 1 **Instability:** 0

Suitable extinguishing media

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

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 (CO₂)
Combustion gases of organic materials must in principle be graded as inhalation poisons

Special protective equipment for firefighters

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 and 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.

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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

8. Exposure controls / personal protection

OSHA Exposure Limits

Components	TWA
Total Dust	15 mg/m ³
Respirable Dust	5 mg/m ³

ACGIH Exposure Limits

Components	TWA
Total Dust	10 mg/m ³
Respirable Dust	3 mg/m ³

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

Personal protective equipment

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

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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
Odour	almost odourless, characteristic.
Softening point	> 60 °C / 140 F
Specific Gravity	1.0 - 1.1
Vapour pressure	< 0.001 mm Hg
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 polymerisation 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.

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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

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:

Health, Safety and Environment Department

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)

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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 ***

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