

product code	TP01	Version / Revision	9
Revision date	07.01.2025	Supersedes Version	8

SECTION 1: IDENTIFICATION

Product identifier

Topas® Cyclic Olefin Copolymers

Other means of identification

CAS-No. 26007-43-2

Recommended use of the chemical and restrictions on use

Injection moulding of articles. 3-D Printing. packaging Industry. medical articles.

Uses advised against

Implantable medical devices.

Name, address and telephone number of the supplier

Polyplastics USA, Inc.

27240 Haggerty Road, Suite E-20

Farmington Hills, MI 48331

United States

Emergency telephone number

in USA, call 800 424 9300

outside USA, call +1.703.527.3887, collect calls accepted available 24/7

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not classified based on available information.

Label elements

not required.

Other hazards

Contact with product at elevated temperatures can result in thermal burns.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture



Constituents or stabilizers contributing to the classification

None.

Chemical characterization

contains ethylene-norbornene copolymer (CAS 26007-43-2).

Remarks

The following specific grades of TOPAS are covered by this MSDS:

5013L-10; 5013S-04; 6013M-07; 6013S-04; 6015S-04; 6017S-04; 8007S-04; 8007X10.

SECTION 4: FIRST AID MEASURES**Description of first aid measures****General advice**

Wash contaminated clothing before re-use.

Inhalation

Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact

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. Obtain medical attention.

Skin contact

Cool skin rapidly with cold water after contact with molten polymer. 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. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion

Do not induce vomiting without medical advice. Obtain medical attention.

Most important symptoms/effects, acute and delayed

This product is essentially inert and non-toxic. . Product dust generated may cause respiratory irritation in case of excessive inhalation exposure.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**Suitable and unsuitable extinguishing media****Suitable extinguishing media**

Foam. Dry chemical. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture

Does not involve any particular risk of fire or explosion. . Under conditions giving incomplete combustion, hazardous gases produced may consist of: carbon monoxide (CO). Carbon dioxide (CO₂). Combustion gases of organic materials must in principle be graded as inhalation poisons.

Protective equipment and precautions for fire fighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear. Clear the danger zone. Remove undamaged containers from fire area if it is safe to do so. Keep people away from and upwind of fire. Cool closed containers exposed to fire with water spray. Dike and collect water used to fight fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Do not breathe dust. Avoid breathing vapors or mists. Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Keep people away.

For emergency responders

No special technical protective measures required.

Methods and material for containment and cleaning up

Stop the flow of material, if possible without risk. Sweep up and shovel into suitable containers for disposal. Like most thermoplastic plastics the product can be recycled. Dispose of in accordance with local regulations. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

SECTION 7: HANDLING AND STORAGE

Precautions for 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. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Ground and bond containers when transferring material. Dust can form an explosive mixture in air. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Store indoors. Store in a cool dry place. Store away from direct sunlight or ultraviolet light. .



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure controls****OSHA Table Z-3**

	8-hour TWA	
Inert dust, respirable fraction	5	mg/m ³
Inert dust, total dust	15	mg/m ³

Appropriate engineering controls

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Individual protection measures, such as personal protective equipment**General industrial hygiene practice.**

Avoid inhalation of dust. Avoid contact with skin, eyes and clothing.

Take off all contaminated clothing immediately. When using, do not eat, drink or smoke. Ensure that eye flushing systems and safety showers are located close to the working place. Wash hands before breaks and at the end of workday.

Eye/face protection

Eyes: Wear appropriate protective eyeglasses or chemical safety glasses as described by OSHA's eye and face protection regulation in 29 CFR 1910.133 or European Standard EN166.

Skin protection

Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Chemical protective gloves should not be needed when handling this material, but use gloves to protect from mechanical injury. Consistent with general hygienic practice, skin contact should be minimized. . Selection of gloves will depend on the task. Use gloves with insulation for thermal protection (EN 407), when needed. Other

None under normal use.

Respiratory protection

If the dust exposure limit is exceeded, wear dust mask or respirator with particle filter. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Filter type:

Filter type P2.

Thermal hazards

When handling hot material, use heat resistant gloves. Heat only in areas with appropriate exhaust ventilation.

Environmental exposure controls

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. As the products meets the definition of microplastics, any release to the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Colour	colorless. transparent.
Odour	odourless.
Melting point/freezing point	75 - 185°C/ 167 – 365F
Boiling point or initial boiling point and boiling range	No data available.
Flammability	May form combustible dust concentrations in air during processing, handling or other means.
Lower and upper explosion limit	Not applicable.
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	No data available.
pH	No data available.
Viscosity, kinematic	Not applicable.
Water solubility	Insoluble in water.
Partition coefficient n-octanol/water (log value)	No data available.
Vapour pressure	< 0.001 mm Hg@25°C (77F)
Density and / or relative density	1,010 – 1,020 kg/l.
Relative vapour density	No data available.
Particle characteristics	No data available.
VOC Content	< 0.5 % (w/w)
Bulk Density	550-560 g/l

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

Avoid temperatures above 350 °C/662F. Risk of decomposition.

Incompatible materials



None known.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Vapours may be irritating to eyes, nose, throat, and lungs. Decomposition products can include and are not limited to: aldehydes. Organic acids. Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Dermal. Inhalation.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

Delayed and immediate effects and also chronic effects from short and long term exposure

None known.

Numerical measures of toxicity

no data available. Essentially non-toxic based on biological activity of high molecular weight polymers.

SECTION 12: ECOLOGICAL INFORMATION

Acute aquatic toxicity

Essentially non-toxic based on biological activity of high molecular weight polymers.

Persistence and degradability

Biodegradation: Not readily biodegradable.

Bioaccumulative potential

The polymer is too large to be bioavailable.

Mobility in soil

no data available.

Other adverse effects

According to our experience and to the information provided to us, the product does not have any harmful environmental effects if it is used and handled as specified. As the products meets the definition of micro-plastics, any release to the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS



Waste treatment methods

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal. Where possible recycling is preferred to disposal or incineration. May be taken to waste disposal site or incineration plant, with household waste. Rules of the local authorities must be observed.

SECTION 14: TRANSPORT INFORMATION

	CFR	IMDG	IATA
UN number or ID number			
UN proper shipping name			
Hazard Inducer	Not dangerous goods.		
Transport hazard class(es)			
Packing group			
Environmental hazards / Marine pollutant			
Special precautions for user			

Maritime transport in bulk according to IMO instruments

Not relevant.

SECTION 15: REGULATORY INFORMATION

Federal Laws and Regulations

Toxic Substances Control Act (TSCA)

It is listed on the active inventory list via the 2018 reset rule.

OSHA Regulatory Status

non-hazardous as defined by the American OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Hazardous Substances

not subject.

EPCRA SARA Title III 313

not subject.

NFPA (National Fire Protection Association)

Health hazard	1
Fire Hazard	1
Reactivity	0

HMIS (Hazardous Material Information System)

Health hazard	0
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Fire Hazard	1
Physical Hazard	0

Global Inventories

AICS (AU)	Listed.
DSL/NDSL (CA)	DSL: Listed
IECSC (CN)	Listed
EINECS	Listed
ENCS (JP)	Listed
ISHL (JP)	Not listed.
KECI (KR)	Listed
INSQ (MX)	Not listed.
PICCS (PH)	Not listed.
TSCA (US)	Listed
NZioC (NZ)	Listed
TSCI (TW)	Listed

SECTION 16: OTHER INFORMATION

Indication of changes

minor changes due to a redesign of the SDS are not marked. *** Data changed compared with the previous version.

Revision Date

2025/01/07.

Disclaimer

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.

End of Safety Data Sheet