

SAFETY DATA SHEET(SDS)

Issued: July 25, 2006

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FileNo. 7001

1. Chemical Product & Company Identification

CHEMICAL PRODUCT NAME:	TOPAS®	8007X10
NAME OF COMPANY:	Polyplastics Co., Ltd.	
ADDRESS:	2-18-1 Konan, Minato-ku, Tokyo, 108-8280 Japan	
SECTION IN CHARGE:	Quality Assurance Dept.	
TELEPHONE NUMBER:	03-6711-8605	
FACSIMILE NUMBER	03-6711-8616	

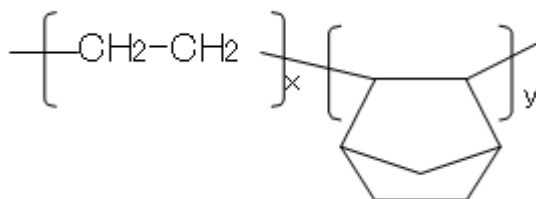
2. Hazards identification

[GHS CLASSIFICATION]

Physical and Chemical Hazards	:	· Flammable solids : Classification not possible · Self-reactive substances and mixtures : Not applicable · Pyrophoric solids : Not classified · Self-heating substances and mixtures : Not classified · Substances and mixtures, which in contact with water, emit flammable gases : Not classified · Oxidizing solids : Not classified · Corrosive to metal : Not classified
Health Hazards	:	· Carcinogeneses : No hazard · Specific target organ/systemic toxicity (Repeated exposure) : No hazard
Environmental Hazards	:	No hazard
[SYMBOL]	:	None
[SIGNAL WORD]	:	None
[HAZARD STATEMENT]	:	None
[PRECAUTIONARY STATEMENTS]	:	
Prevention	:	· Wash hands thoroughly after handling. · Wear protective gloves.
Storage	:	Avoid direct sunlight and store in a well-ventilated place.
Disposal	:	Dispose of contents/container in accordance with local & national regulations.

3. Composition/information on ingredients

SUBSTANCE/PREPARATION	:	Mixture
COMMON CHEMICAL NAME	:	Bicyclo[2.2.1]hept-2-ene, polymer with ethene
SYNONYMS	:	Ethylene-Norbornene copolymer
INGREDIENTS AND COMPOSITION	:	COC 100%
CHEMICAL FORMULA	:	



SERIAL No. IN OFFICIAL GAZETTE	:	6-2271(base resin) (Law Concerning Examination and Regulation of Manufacture, etc., of Chemical Substances)
CAS No.	:	26007-43-2(base resin)
INGREDIENTS CONTRIBUTING TO THE HAZARD	:	Cadmium, lead, hexavalent chromium and mercury are not used in this grade.

4. First-aid measures

INGESTION	:	When a gas generated from the molten polymer has been inhaled,
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SKIN CONTACT	move to area of fresh air without delay and wait until the victim is recovered. If sick feeling continues, ask a physician for advice. : Cool the contacted skin with clean water without delay, if a contact with the polymer in a molten form. Do not force to remove the solid resin on the skin. If any burns are observed on the skin, ask a physician for advice.
EYE CONTACT	: Cool and rinse the eye with clean water for at least 15 minutes when the eyes had contact with molten polymer. In case of wearing contact lenses, remove the lenses as soon as possible, and ask a physician for advice. When the eye had contact with the polymer in an ordinary solid form, rinse the eye with clean water without delay. If the discomfort persists, ask a physician for advice.
SWALLOW	: Help to vomit as much as possible. If sick feeling continues, ask a physician for advice.
5. Fire-fighting measures	
EXTINGUISHING MEDIA	: Water, foam fire-extinguishing agent, powder fire-extinguishing agent, and carbon dioxide gas.
SPECIFIC METHODS	: Extinguish the fire with water. A method of extinguishing an ordinary fire may be applied. Do not apply water directly to processing machines.
SPECIFIC HAZARDS	: Incomplete combustion leads to generation of toxic gases such as carbon monoxide, in addition to hydrocarbons, carbonic acid gas and water.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS	: In case the fire gained force, use a gas mask or other protective equipment.
6. Accidental release measures	
PERSONAL PRECAUTIONS	: When pellets were spilled on the road or floor, wipe them off with a besom or cleaner not to cause slipping.
ENVIRONMENTAL PRECAUTION	: Handle the spillage in accordance with provisions given in the "Resin pellet spillage preventive manual", in order to prevent intakes by marine animals and birds.
7. Handling and storage	
HANDLING	: COC resin in a pellet form will neither ignite nor explode at room temperatures, but it falls under the inflammables designated by the Fire Service Law. Keep it away from the igniting sources, as it quickly gains force once it is ignited.
HANDLING 2	: Avoid retaining hot resin in the processing machines for many hours.
HANDLING 3	: This pellets spilled on the floor are likely to cause slipping. Remove such spillage at any times.
HANDLING 4	: For molding work, effective means for local exhaust are required to discharge gases generated by melt processing.
HANDLING 5	: Avoid inhaling of gases generated in molding work. Do not directly touch resin of high temperature.
STORAGE	: Keep the substance away from any fire or heat sources for the sake of safe storage.
STORAGE 2	: This polymer is a synthetic resin designated as an inflammable substance by the Fire Service Law and should be handled in accordance with municipal rules and regulations (concerning fire-fighting equipment, indoor storage, for instance).
RECOMMENDED PACKAGING MATERIALS	: No information.
8. Exposure controls/ personal protection	
CONTROL CONCENTRATION	: None at present

PERMISSIBLE CONCENTRATION	: Japan Association on Industrial Health(2001)
	Class 3 particulates Respirable 2mg/m3
	Total 8mg/m3
	ACGIH(2001)
	Nuisance particulates Inhalable 3mg/m3
	Respirable 10mg/m3
ENGINEERING MEASURE	: ·When handling dust: Use totally enclosed containers resisting dust explosion. ·When heat melted in molding: Effective local ventilation must be provided.
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Wear a dust-proof mask.
HAND PROTECTION	: Wear heat-resisting gloves against burns, when handling molten polymer.
EYE PROTECTION	: Wear protective glasses or goggles.
SKIN & BODY PROTECTION	: Wear long sleeve clothes against burns, when handling molten polymer.

9. Physical and chemical properties

APPEARANCE etc.	: Pellet
BOILING POINT	: Not applicable
VAPOUR PRESSURE	: Not applicable
VOLATILITY	: Not applicable
SUBLIMATION	: None
MELTING POINT	: Softening Point: >60°C
DENSITY	: 1.01
SOLUBILITY	: Insoluble in water
FLASH POINT	: No finding
IGNITION POINT	: 350°C or higher
EXPLOSION PROPERTY	: Not applicable
INFLAMMABILITY	: Inflammable(Designated as inflammable resin by the Fire Service Law)
REACTIVITY WITH WATER	: None
OXIDIZABILITY	: None
SELF-REACTIVITY	: None
DUST EXPLOSIVENESS	: Upper explosion limit : Not applicable. Lower explosion limit : 35g/m3

10. Stability and reactivity

STABILITY AND REACTIVITY	: Stable for normal storage or handling.
CONDITIONS TO AVOID	: Avoid contacts with strong oxidizing agent.

11. Toxicological information

SKIN CORROSION/IRRITATION	: No finding.
SERIOUS EYE DAMAGE/IRRITATION	: No finding
ACUTE TOXICITY(INCLUDING LD50)	: No finding.
SUBACUTE TOXICITY	: No finding.
CHRONIC TOXICITY	: No finding.
CARCINOGENECITY	: No finding.
MUTAGENECITY(Micro organisms, chromosomal aberration)	: No finding.
REPRODUCTIVE TOXICITY	: No finding.
TERATOGENICITY	: No finding.
OTHERS(Including generation of hazardous gases by reaction with water, for example)	: No finding in this report means that there will be no hazard in general, but no proving data available at the time of reporting.
OTHER CAUTIONS	: With regard to dust, the maximum permissible concentration and limits are fixed by OSHA and ACGIH.

12. Ecological information	
BIODEGRADABILITY	: No finding.
BIOACCUMULATION	: No finding.
FISH TOXICITY	: No finding.
HAZARDS TO OZONE LAYER	: None
Hazards to ozone layer	: None
13. Disposal considerations	
WASTE FROM RESIDUES	: This is designated as waste plastics among industrial wastes by the Wastes Disposal Law. Disposal waste pellets through licensed wastes handlers or local autonomous bodies if they are handling wastes disposal.
WASTE FROM RESIDUES 2	: When disposed by incineration, use the well controlled incinerators in accordance with the Wastes Disposal Law, Air Pollution Control Law and Water Pollution Prevention Law.
14. Transport information	
UN CLASSIFICATION NUMBER	: Not restricted for ICAO/IATA.
OTHER CAUTIONS	: Handle with care so as not to give damages to containers or not to be subjected to wetting.
OTHER CAUTIONS 2	: Secure the containers firmly so as not to cause collapsing.
15. Regulatory information	
FIRE SERVICE LAW	: Inflammable synthetic resin Designated quantity: More than 20m3 for the foamed product. More than 3,000 kg for other types.
WASTE DISPOSAL LAW	: Waste plastics among industrial wastes.
16. Other information	
HANDLING OF THE DETAILS GIVEN ABOVE	: This SDS is the English version translated from the Japanese SDS which is prepared for domestic use. Details given above are based on references, information and data available at this moment, but no warranty can be made on exactness of these details. They are also prepared on the assumption that the product will be handled in a normal way. For special handling, adequate safety and environmental measures should be taken in respect to its applications. Our products are not specifically intended for implants for medical and dental applications, and therefore they are not recommended for such applications. "No finding" in this report means that there will be no hazard in general, but no proving data is available at the time of reporting.
WHERE TO CALL FOR FURTHER INFORMATION	: Polyplastics Co.,Ltd. Quality Assurance Dept. Tel. No 03-6711-8605

*TOPAS® is a registered trademark of TOPAS Advanced Polymers GmbH in Germany, the United States, and other countries.