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**MATERIAL SAFETY DATA SHEET**

APPROVED	CONFIRMED
	

[MSDS NUMBER OGC-145-7E]

Creation date :2011/12/05

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**1. IDENTIFICATION**

Product name OKP6  
Recommended use optical lense  
Supplier Name: OSAKA GAS CHEMICALS CO.,LTD.  
Address: 5-11-61, Torishima , konohana-ku,Osaka,554-0051,JAPAN  
Section: Quality assurance office  
Fine Materials Business Div.  
Telephone Number +81-6-6462-1075  
Fax Number +81-6-6466-4568  
Emergency contact  
Please call the telephone number listed above.

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**2. HAZARD(S) IDENTIFICATION****GHS Classification**

Classification of physical hazards: unclassifiable  
Classification of health hazards: unclassifiable  
Classification of environmental hazards: unclassifiable

**Precautionary statements**

- Potential health effects  
Primary routes of exposure  
Eye: Material may cause irritation or injury due to mechanical action.  
Skin: Pellets not likely to cause skin irritation.
  - Melt Processing health effects  
Molten plastic may cause severe burns.  
Processing fumes may cause irritation to the eyes, skin, and respiratory tract.
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### *3. COMPOSITION /INFORMATION ON INGREDIENTS*

Substance/Mixture	Substance
Chemical name	Fluorene based polyester copolymer
Ingredients and composition	More than 99%
Chemical formula	Non-disclosure
CAS number	Non-disclosure

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### *4. FIRST AID MEASURES*

- EYE CONTACT

Rinse the affected eyes immediately with clean water for at least 15 minutes. Remove contact lenses unless they are stuck to eyes. Do not rub eyes to prevent irritation and to prevent damages to cornea. If eye irritation persists, consult a specialist.

- SKIN CONTACT

Wash affected area with plenty of soap and water. For skin contact of fume condensate, immediately wash affected area thoroughly with soap and water. For molten plastic skin contact: Cool the affected area rapidly with water. If polymer is stuck on the skin after flushing with water, do not remove it. Look for medical attention.

- INHALATION

When gas and/or fumes generated from the molten resin is inhaled , remove the victim to fresh air. If this person feel unwell or in case of prolonged exposure, looking for medical care.

- INGESTION

Force to vomit as much as possible. If necessary, have a medical care.

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### *5. FIRE-FIGHTING MEASURES*

- EXTINGUISHING MEDIA

Water, dry chemical powder or foam.

Water and water-jet are the best extinguishing media because of cooling capacity.

- SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES.

Carbon monoxide, carbon dioxide and other hazardous products will form upon combustion.

- FIRE-FIGHTING

Approved pressure demand; breathing apparatus and protective clothing should be used for all fires.

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## *6. ACCIDENTAL RELEASE MEASURES*

To prevent the danger of slips or falls, sweep or gather up material and place in proper container for disposal or recovery. Immediately collect released resin to prevent environmental contamination.

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## *7. HANDLING AND STORAGE*

- HANDLING

Long retention at high temperature will cause liquefaction and generated gases. Gases generated in the molding process may cause irritation to eyes, skin and respiratory tract. Prevent contact with skin and eyes. Provide adequate ventilation.

Secondary operation such as grinding, sanding or sawing may produce a dust explosion hazard due to electrostatic charge or electrical spark.

Employ bonding, grounding and venting according to accepted engineering practices.

Respiratory protection:

For most conditions, no respiratory protection should be needed; however, If the product is being handled at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator

- STORAGE

Store in a dry place away from heat, steam pipe or sunlight. Keep material away from electrostatic charge.

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## *8. EXPOSURE CONTROL/PERSONAL PROTECTION*

- ENGINEERING MEASURES

In the case where possibilities of dust formation, gas generation, or vapor emission exist, provide local ventilation. Ventilation requirements must be locally determined to limit exposure to materials at their point of use.

- CONTROL PARAMETERS

Not established.

- PERSONAL PROTECTION EQUIPMENT

Respiratory protection :

If necessary, use a respirator for dust and gases.

Eye protection :

If necessary, wear safety glasses or chemical goggles.

Hand, skin, and body protection :

During the process of melting, wear long pants, long sleeves, well insulated gloves and face shield. Use appropriate protective clothing, including chemical resistant gloves for prevention.

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### *9. PHYSICAL AND CHEMICAL PROPERTIES*

· PHYSICAL STATE	Solid
· APPEARANCE	Pellet
· BOILING POINT	Not applicable
· VAPOR PRESSURE	Negligible
· MELTING POINT	Does not show a sharp melting point. Softens gradually over 200 °C.
· SOLUBILITY	Insoluble in water. Soluble in chloroform , tetrahydrofuran.

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### *10. STABILITY AND REACTIVITY*

FLASH POINT	Not Available
EXPLOSION LIMIT	Not Available
FLAMMABILITY	Flammable
SELF-REACTIVITY/POTENTIAL FOR EXPLOSION	None
REACTIVITY WITH WATER	None
OXIDIZING PROPERTY	None
REACTIVITY	Not reactive under ordinary temperature
STABILITY	Stable under recommended condition of storage.
CONDITION TO AVOID	In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small , flat shapes or thin strands to allow rapid cooling in water.

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### *11. TOXICOLOGICAL INFORMATION*

· CORROSIVE AND IRRITANT PROPERTIES

Processing fumes may cause irritation to eyes, skin, and respiratory tract.

- ACUTE TOXICITY Not Available
- SUB-CHRONIC TOXICITY Not Available
- CARCINOGENIC EFFECTS Not Available
- MUTAGENIC EFFECTS Not Available
- EFFECTS ON THE REPRODUCTIVE SYSTEM Not Available

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### *12. ECOLOGICAL INFORMATION*

Not Available

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### *13. DISPOSAL CONSIDERATION*

Follow the instructions to all federal, state and local regulations. Do not dispose into drains, ground or body of water.

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### *14. TRANSPORT INFORMATION*

- UN Number Not applicable
- UN Proper shipping name Not applicable
- Transport hazardous class Not applicable
- Packing group Not applicable

Avoid water and careless handling to prevent damage to the container.

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### *15. REGULATORY INFORMATION*

Ensure this material in compliance with federal requirements and ensure conformity to local regulations

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### *16. OTHER INFORMATION*

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.

Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall OSAKAGAS

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