

# KANEKA

First issue : 11-Dec-2001

Revised : 1-Jul-2005

## Material Safety Data Sheet

Date of preparation : 17-May-2008

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Protex-M Modacrylic Fiber

Manufacture's Name : KANEKA CORPORATION

Address : 3-2-4,NAKANOSIMA KITA-KU OSAKA JAPAN 530-8288

Telephone : 06-6226-5209 OSAKA JAPAN

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Concentration range
Acrylonitrile - vinylidene chloride copolymer	≥75%

Material obtained from the spinning of the above polymer with finishing oil on the surface, antimony oxide as flame retardant and other performance additives within the polymer matrix.

### 3. HAZARDS IDENTIFICATION

#### Emergency overview

Form : fibers

Colour : various

Odour : odourless

#### Warning statements

No significant hazards associated with this material

### 4. FIRST AID MEASURES

In any exposure routes, immediate first aid is not likely to be required.

Inhalation : If symptoms occur, remove to fresh air.  
: Remove material from eyes, skin and clothing.

Eye contact : This material can be removed with water.

Skin contact : This material can be removed with water.

Ingestion : Digestive decomposition is not carried out in a body.  
: Diagnosis of a doctor and medical treatment are undergone if needed.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media : Water spray, foam, dry chemical, or carbon dioxide

Hazardous products of combustion : carbon dioxide(CO<sub>2</sub>), carbon monoxide (CO), hydrogen chloride(HCl), ammonia (NH<sub>3</sub>), hydrogen cyanide (HCN), nitrogen oxides (NO<sub>x</sub>)

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protection recommended in section 8.

Spill or leak procedure : Collect and remove with available mechanical means.

Waste disposal : Dispose of in compliance with local regulations regarding waste.

### 7. HANDLING AND STORAGE

Handling : Handle in accordance with good industrial hygiene and safety practices.  
: Handle the package carefully to avoid breaking the packing and spilling the contents.  
: A glove is worn if needed.

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**Storage** : Stable under normal conditions of handling and storage.  
: Keep out of sunlight , sources of heat, and water.  
: It should be kept indoors.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye protection** : Does not cause significant eye irritation or eye toxicity requiring special protection.  
: Use good industrial practice to avoid eye contact.

**Skin protection** : Although this material does not present a significant skin concern, a glove is worn if needed.

**Respiratory protection** : Avoid breathing dust.  
: Use approved respiratory protection equipment when airborne exposure is excessive.

**Ventilation** : Provide natural or mechanical ventilation to minimize exposure.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : fibers

**Colour** : various

**Odour** : odourless

**Melting point** : not applicable

**Flash point** : not available

**Auto-ignition point** : not available

**Specific gravity** : 1.45-1.60

**Solubility in water** : insoluble

**Solubility in other solvent** : dimethyl formamide, dimethyl acetamide, acetone

**10. STABILITY AND REACTIVITY**

**Conditions to avoid** : This material is stable in normal conditions of temperature and pressure.

**Hazardous reactions:** : Hazardous polymerization does not occur.

**Hazardous decomposition products** : This material decomposes at about 250°C.  
: In case of combustion, see section 5.

**11. TOXICOLOGICAL INFORMATION**

Kaneka has conducted toxicity studies and the following information was obtained.

**Ingestion** : In a study performed at the maximum practical dosage of 1000mg/kg ,  
the product showed no sign of acute oral toxicity on rats.

**Contact with skin and eyes** : Caused no reaction of skin and eye sensitivity in tests performed  
on rabbits.

**12. ECOLOGICAL INFORMATION**

Kaneka has not conducted environmental toxicity or biodegradation studies with this material.

**13. DISPOSAL CONSIDERATIONS**

Comply with local regulations regarding waste.  
This material should not be dumped, spilled into sewers or public waterways.

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### 14. TRANSPORT INFORMATION

It is not classified as dangerous goods as regards national and international transport regulations.

### 15. REGULATORY INFORMATION

This material is not classified as dangerous goods as regards Directive 92/32/EEC dated 30/4/1992.

Please refer to any other national measures that may be relevant.

### 16. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of KANEKA Corporation. It relates only to the specific material designed herein, and does not in combination with any other material or in any process. KANEKA Corporation assumes no legal responsibility for use of or reliance upon this information.