

# MATERIAL SAFETY DATA SHEET

No. E 3102      PET(polyethylene telephthalate) resin-KS710B Up dated on April 1, 2002

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## 1.PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PET(polyethylene telephthalate) resin-KS710B

**SUPPLIER:** Kuraray Co.,Ltd.

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## 2. COMPOSITION/ INFORMATION ON INGREDIENTS

**CHEMICAL PRODUCT:** Substance

**CHEMICAL NAME:** 1,4-Benzenedicarboxylic acid polymer with 1,2-ethanediol and  $\alpha, \alpha'$ -((1-methylethylidene)di-4,1-phenylene)bis( $\omega$ -hydroxypoly(oxy-1,2-ethanediyl))

**CHEMICAL FORMULA:**  $-(\text{TPA})_{100}[-(\text{OCH}_2\text{-CH}_2\text{O})_x-(\text{EOBPA})_y]_{100}$

\* TPA: Terephthalic Acid

\* EOBPA:  $(\text{OCH}_2\text{CH}_2)_m\text{-O-Ph-C}(\text{CH}_3)_2\text{-Ph-O-(CH}_2\text{CH}_2\text{O})_m$

$m+n=1 \sim 4$

Ph; - ( C<sub>6</sub> H<sub>4</sub> ) -

**CAS REGISTRY NUMBER:** 108854-80-4

**INGREDIENTS AND COMPOSITION:** 100%

## 3. HAZARDS IDENTIFICATION

**UN CLASS AND NUMBER:** Not applicable

**ADVERSE HUMAN HEALTH EFFECT:** No carcinogenic effects

**PHYSICAL AND CHEMICAL HAZARDS:** Not applicable

**ENVIRONMENTAL EFFECT:** Not toxic gas generation when its incineration

## 4. FIRST-AID MEASURES

**EYE CONTACT:** If finely ground dust gets in eyes, immediately flush eyes with plenty of cool water to remove particles from eyes.

**SKIN CONTACT:** If molten or heated material contact to unprotected skin, wash affected area, with plenty of water.

**INHALATION:** If overcome by finely ground or heated fumes, immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

**INGESTION:** Rinse mouth with water. Give the person one or two glasses of water, try to get the victim to vomit.

Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

## 5. FIRE-FIGHTING MEASURES

**SPECIFIC HAZARDS:** Toxic gases(carbon monoxide) may form when burned without sufficient oxygen.

**EXTINGUISHING MEDIA:** Dry chemical powder, water, carbon dioxide, are effective.

**EXTINGUISHING METHOD:** Fire-fighter should wear self-contained breathing apparatus with full face piece operated in positive pressure mode when there is a possibility of exposure to smoke, fumes or hazardous decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

**METHOD FOR CLEANING UP:** Normal procedure for clean-up. Use good housekeeping practices. Contain spilled material. Transfer to secure containers.

**PERSONAL PRECAUTION:** Wear appropriate respiratory protection and protective clothing as described in section 8.

## 7. HANDLING AND STORAGE

**HANDLING:** When handling finely ground KURAPET pellet, ground all transfer, blending and dust collecting equipment to prevent static sparks. Remove all ignition sources from material handling, transfer and processing areas where dust may be present.

Mechanical and local exhaust should be provided in work areas. Do not use near open flame or areas where smoking is permitted. KURAPET pellets spilled on walking surfaces constitute a slipping hazard. Work areas should be kept clean and free pellets.

**STORAGE:** Store in a cool, dry, well-ventilated location, and store in a damp-proof bag not to absorb moisture.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

### **APPEARANCE, PHYSICAL STATE, FORM, COLOR, ODOR:**

White to straw colored and colorless chip and pellet, odorless.

**MELTING POINT:**  $230 \pm 3$

**FLASHPOINT:** more than 500

**DENSITY:**  $1.37 \pm 0.01 \times 10^3$

**SOLUBILITY:** Insoluble in water.

## 9. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Oral LD 50 (rat) ; > 2000mg/kg

## 10. ECOLOGICAL INFORMATION

**BIODEGRADABILITY:** Not available

**BIOACCUMULATION:** Not available

**FISH TOXICITY:** Not available

## 11. DISPOSAL CONDITION

**WASTE DISPOSAL:** All recovered material should be disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.