

# Dayson Polymers, LLC

P.O. Box 372

Rittman, Ohio 44270

phone: 330-335-5237 fax: 330-335-6085

## Material Safety Data Sheet (MSDS)

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name: 1,3,5-TRIOXANE, POLYMER WITH OXIRANE, CAS NUMBER = 24969-25-3

Brand Name: **KEPITAL TX-31**

Supplier: Korea Engineering Plastics Co., Ltd.  
450 Kongduck-Dong, Mapo-Ku, Seoul, Korea  
Contact 82-2-707-6840, Korea

Issued Date: 8-25-98 (Rev. 0)

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	PERCENTAGE
1,3,5-TRIOXANE, POLYMER WITH OXIRANE	24969-25-3	> 98.0%
SPECIAL LUBRICANT (ANTIOXIDANTS, ETC.)		< 2.0%

### 3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4)      HEALTH =1      FIRE =1      REACTIVITY =0

#### EMERGENCY OVERVIEW:

PHYSICAL FORM: Solid

MAJOR HEALTH HAZARDS: No significant target effects reported.

PHYSICAL HAZARDS: Dust/air mixtures may ignite or explode.

#### POTENTIAL HEALTH EFFECTS:

##### INHALATION:

SHORT TERM EXPOSURE: No information is available.

LONG TERM EXPOSURE: No information is available.

##### SKIN CONTACT:

SHORT TERM EXPOSURE: No information is available.

LONG TERM EXPOSURE: No information is available.

##### EYE CONTACT:

SHORT TERM EXPOSURE: No information is available.

LONG TERM EXPOSURE: No information is available.

##### INGESTION:

SHORT TERM EXPOSURE: No information is available.

LONG TERM EXPOSURE: No information is available.

#### CARCINOGEN STATUS:

OSHA: N

NTP: N

IARC: N

**PRODUCT NAME: KEPITAL TX-31**

---

**4. FIRST AID MEASURES**

**INHALATION:** Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get Medical attention.

**SKIN CONTACT:** Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention if needed.

**EYE CONTACT:** Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

**INGESTION:** If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

---

–

**5. FIRE FIGHTING MEASURES**

**FIRE AND EXPLOSION HAZARDS:** Slight fire hazard. Dust/air mixtures may ignite or explode.

**EXTINGUISHING MEDIA:** Carbon Dioxide, regular dry chemical, regular foam, water.

**FIREFIGHTING:** Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**FIREFIGHTING PROTECTIVE EQUIPMENT:** Full firefighting turn-out gear (bunker gear). Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full face piece.

---

–

**6. ACCIDENTAL RELEASE MEASURES**

**OCCUPATIONAL RELEASE:**

Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

---

–

**7. HANDLING AND STORAGE**

Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

---

–

**8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

**EXPOSURE LIMITS:**

1,3,5 –TRIOXANE, POLYMER WITH OXIRANE: No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

**VENTILATION:** Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

**EYE PROTECTION:** Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing.

**GLOVES:** Wear appropriate chemical resistant gloves.

**RESPIRATOR:** Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any dust, mist, and fume respirator.

Any air purifying respirator with a high-efficiency particulate filter.  
Any powdered, air-purifying respirator with a dust, mist, and fume filter.  
Any powered, air-purifying respirator with a high-efficiency particulate filter.  
For Unknown concentrations or immediately Dangerous to Life or Health –  
Any supplied-air respirator with full face piece and operated in a separate escape supply.  
Any self-contained breathing apparatus with a full face piece.

Page 2

**PRODUCT NAME: KEPITAL TX-31**

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Solid  
MOLECULAR FORMULA: (C3-H6-03, C2-H4-0)X  
MELTING POINT: 165°C  
VAPOR PRESSURE: Not applicable  
VAPOR DENSITY: Not applicable  
SPECIFIC GRAVITY: 1.39  
WATER SOLUBILITY: No data available  
PH: Not applicable  
VOLATILITY: Not applicable  
ODOR THRESHOLD: No data available  
EVAPORATION RATE: Not applicable

---

## 10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.  
CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.  
INCOMPATIBILITIES: Oxidizing materials.  
HAZARDOUS DECOMPOSITION: Thermal decomposition products: Oxides of carbon.  
POLYMERIZATION: Will not polymerize.

---

## 11. TOXICOLOGICAL INFORMATION

1, 3, 5-TRIOXANE, POLYMER WITH OXIRANE  
CARCINOGEN STATUS: None  
ACUTE TOXICITY LEVEL: No data available.  
TARGET ORGANS: No data available.

---

12. ECOLOGICAL INFORMATION: No data available

---

13. DISPOSAL CONSIDERATIONS : Dispose in accordance with all applicable regulations.

---

14. TRANSPORT INFORMATION: No classification currently assigned.

---

## 15. REGULATORY INFORMATION

U.S. REGULATIONS:	
TSCA INVENTORY STATUS:	Y
TSCA 12 (b) EXPORT NOTIFICATION:	Not listed
CERCLA SECTION 103 (40CFR302.4):	N
SARA SECTION 302 (40CFR355.30):	N

SARA SECTION 304 (40CFR355.40):	N
SARA SECTION 313 (40CFR372.65):	N
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21).	
ACUTE:	N
CHRONIC:	N
FIRE:	N
REACTIVE:	N
SUDDEN RELEASE:	N
OSHA PROCESS SAFETY (29CFR1910.119):	N
STATE REGULATIONS:	
CALIFORNIA PROPOSITION 65:	N