

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/16/2009

Reviewed on 12/15/2009

## 1 Identification of substance

- **Trade name:** **K-KAT 6212**
- **Application of the substance / the preparation:** Catalyst for urethane coatings
- **Manufacturer/Supplier:**  
King Industries, Inc.  
Science Road  
P.O. Box 588  
Norwalk, CT 06852 (USA)
- **Information:** 1-203-866-5551
- **Emergency information:**  
24 hr. Emergency telephone: Chemtrec:  
1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887 (Elsewhere)

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with non-hazardous additions.

### · Dangerous components:

	Reactive Diluent B	Warning: ⚠ 3.2/2; 2.6/4	2.5-6%
17501-44-9	Zirconium chelate	Danger: ⚠ 3.1.O/3, 3.1.D/3, 3.1.I/4, 3.2/2, 3.3/2A, 3.8/3	2.5-5%

## 3 Hazards identification

- **Information pertaining to particular dangers for man and environment:** Irritating to eyes and skin
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 2  
Reactivity = 1

- **HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	2
REACTIVITY	1

Health = 1  
Fire = 2  
Reactivity = 1

## 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb spills with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Product should be handled in accordance with good Industrial Hygiene and Safety practices. Adequate exhaust ventilation should be provided in work areas. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**  
See "Requirements to be met by storerooms and receptacles"
- **Further information about storage conditions:** See "Requirements to be met by storerooms and receptacles"

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

17501-44-9 Zirconium chelate

PEL	5 mg/m <sup>3</sup> as Zr
REL	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

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· **Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

- **Form:** Liquid
- **Color:** Clear straw colored
- **Odor:** Characteristic
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** > 61°C (> 142°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard when handled properly.
- **Density at 20°C (68°F):** 0.980 g/cm<sup>3</sup> (ASTM D 4052)
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix  
Soluble in alcohols, esters, ketones, hydrocarbons, and other organic solvents

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Heat, sources of ignition, contact with ferrous metals, formation of spray.
- **Dangerous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Dangerous products of decomposition:**  
No dangerous decomposition products known if used according to product specifications

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritating to skin
- **in the eye:** Irritant
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

### 12 Ecological information

- **Ecotoxicological effects:**
- **Aquatic toxicity:**  
Reactive diluent A  
Aquatic Toxicity:  
LC50 (fish) > 100 mg/l (96 hr)  
EC50 (daphnia) > 100 mg/l (48 hr)  
IC50 (bacteria) > 100 mg/l (16 hr)  
Biodegradability  
84% (28 day) Readily biodegradable (OECD301B)

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- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **DOT regulations:**
- **Hazard class:** -  
Non-hazardous
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -  
Non-hazardous
- **Maritime transport IMDG:**
- **IMDG Class:** -  
Non-hazardous
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -  
Non-hazardous
- **UN "Model Regulation":** -

**15 Regulations**

- **SARA**
- **Section 355 (extremely hazardous substances):**  
None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):**  
None of the ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**  
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for females:**  
None of the ingredients are listed.
- **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients are listed.
- **Chemicals known to cause developmental toxicity:**  
None of the ingredients are listed.

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- **Carcinogenity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

- **NTP (National Toxicology Program)**

None of the ingredients are listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients are listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

- **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard-determining components of labelling:**

Zirconium chelate

- **Safety phrases:**

Wear suitable protective clothing and gloves.

This material and its container must be disposed of as hazardous waste.

- **National regulations:**

Product is listed or in compliance with: US TSCA, CANADA DSL, EEC EINECS, JAPAN MITI, AUSTRALIA AICS, KOREA ECL, CHINA CICS.

### 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither King Industries nor any of its distributors assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

- **Department issuing MSDS: Regulatory**

- **Contact: Peni Nicholas**

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