

## Material Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Chemical name: 3-Isocyanatopropyltriethoxysilane

Trade name: KH-907

Company identification: Hangzhou Jessica Chemical Co., Ltd

Address: No. 206 Zhenhua Road, West Lake Science and Technology Park, Hangzhou, Zhejiang China

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS:

Cas No.: 24801-88-5

Chemical name: 3-Isocyanatopropyltriethoxysilane

EINECS#: 246-467-6

### 3. HAZARDS IDENTIFICATION:



Potential Health Effects:

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death. Effects may be delayed.

Chronic: No data available.

### 4. FIRST AID MEASURES:

Eye: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Notes to Physician: Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES:

Note: Most foams will react with the material and release corrosive/toxic gases. Small Fires: carbon dioxide, dry chemical, dry sand, alcohol-resistant foam. Large Fires: Water spray, fog or alcohol-resistant foam.

Specific hazards: If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide, Nitrogen oxides(NO<sub>x</sub>), Hydrogen cyanide(HCN).

Specific methods: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, wear personal protective equipment and self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Environment precautions: Do not allow material to be released to the environment without proper government permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material. Ensure adequate ventilation. Keep away from ignition sources.

## 7. HANDLING AND STORAGE:

Precautions for safe handling: Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care. Prevent formation of aerosols. Keep ignition sources away-Do not smoke.

Conditions for safe storage, including any incompatibilities: Store away from oxidizing agents. Store away from water. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts or their assistants.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Install a closed system or local exhaust as possible so that workers should not be exposed directly.

Personal Protective Equipment:

Eyes: Wear safety glasses and chemical goggles if splashing is possible.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions..

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Colorless to light yellow clear liquid

PH: N/A

Boiling Point: 283 °C

Flash Point: 77°C

Specific Gravity/Density: 0.996g/cm<sup>3</sup>

Molecular Formula: C<sub>10</sub>H<sub>21</sub>NO<sub>4</sub>Si

Molecular Weight: 247.36

#### 10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: React with water. Isocyanate can corrode some kinds of plastic and rubber.

Conditions to Avoid: High temperature and fire.

Incompatibilities with Other Materials: Strong oxidizing agents, metal compounds, alcohols, strong bases, water.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, silicon dioxide, Nitrogen oxides (NO<sub>x</sub>),

Hydrogen cyanide (prussic acid)

#### 11. TOXICOLOGICAL INFORMATION:

Acute toxicity: Harmful in contact with skin. Harmful if swallowed. Danger by skin resorption. Fatal if inhaled.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### 12. ECOLOGICAL INFORMATION:

Persistence and degradability: Water/Soil: High; Air: High.

Bioaccumulative potential: Low(LogKOW = 0.2644 )

Mobility in soil: Low(KOC = 8766)

#### 13. DISPOSAL CONSIDERATIONS:

Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

Unclean packaging: Completely discharge containers (no tear drops, no powder rest, scraped carefully).

Containers may be recycled or re-used. Observe local/state/federal regulations.

#### 14. TRANSPORT INFORMATION:

Class: 6.1+8

Packaging Group: I

UN No.: 3390

#### 15. REGULATORY INFORMATION:

This MSDS is complied with national standard as below: GB16483-2008, GB13690-2009, GB6944-2012, GB/T15098-2008, GB18218-2009, GB15258-2009, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GBZ 2-2007 and relevant law and regulation: 《Transport management rules for dangerous goods》、《Safety management regulations for hazardous chemical materials》

#### 16. ADDITIONAL INFORMATION:

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This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall

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not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.