Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION
   Product name: Zinc P-Toluene Sulfonate Hydrate
   CAS-No.: 123334-05-4
   Synonym: ZTS; P-Toluene Sulfinic Acid Zinc Salt; Zinc P-Toluene Sulfonate Hydrate; Zinc P-Toluenesulphinate; P-Toluenesulfonic Acid Zinc Salt Hydrate; TM; Blowing Agent Activator ZTS
   Company: Heze Kingvolt Chemical Co., Ltd
   Address: Juancheng Industry Park, Heze, Shandong Province, China.
   Zip code: 274600.
   Telephone: +86-573-82118911
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   Emergency Phone #: +86-15157335533
   E-mail: sales@kingvoltchem.com

2. COMPOSITION/INFORMATION ON INGREDIENTS
   Formula: C_{14}H_{16}O_{7}S_{2}Zn
   CAS-No. | EC-No. | Index-No. | Concentration
   ---|---|---|---
   Zinc P-Toluene Sulfonate Hydrate | 123334-05-4 | 236-576-7 | >98%

3. HAZARDS IDENTIFICATION
   EMERGENCY OVERVIEW
   Irritating to eyes, respiratory system and skin.

   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:
   Causes respiratory tract irritation. May be harmful if inhaled.
   Chronic:
   Not available.

4. FIRST AID MEASURES
   Eyes:
   Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
   Skin:
   Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

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Ingestion:
Get medical aid. Wash mouth out with water.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES
   General Information:
   As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
   Extinguishing Media:
   Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. ACCIDENTAL RELEASE MEASURES
   General Information:
   Use proper personal protective equipment as indicated in Section 8.
   Spills/Leaks:
   Vacuum or sweep up material and place into a suitable disposal container.

7. HANDLING AND STORAGE
   Handling:
   Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
   Storage:
   Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
   Engineering Controls:
   Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
   Exposure Limits
   CAS# 123334-05-4:
   Personal Protective Equipment
   Eyes:
   Not available.
   Skin:
   Wear appropriate protective gloves to prevent skin exposure.
   Clothing:
   Wear appropriate protective clothing to prevent skin exposure.
   Respirators:
   Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Powder
Color: white
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: Not available.
Autoignition Temperature: Not available.
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: Not available.
Solubility in water: Insoluble.
Specific Gravity/Density: Not available.
Molecular Formula: C_{14}H_{14}O_6S_2Zn
Molecular Weight: 407.78

10. STABILITY AND REACTIVITY
Chemical Stability: Not available.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials:
Strong oxidizing agents, acids.
Hazardous Decomposition Products:
Carbon monoxide, oxides of sulfur, carbon dioxide, zinc oxides.
Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION
RTECS#:
CAS# 123334-05-4 unlisted.
LD50/LC50:
Not available.
Carcinogenicity:
Zinc p-toluenesulfonate hydrate - Not listed by ACGIH, IARC, or NTP.

12. ECOLOGICAL INFORMATION
None known.

13. DISPOSAL CONSIDERATIONS
Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION
IATA

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Not regulated as a hazardous material.

IMO
Not regulated as a hazardous material.

RID/ADR
Not regulated as a hazardous material.

15. REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:
R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 123334-05-4: No information available.

Canada
None of the chemicals in this product are listed on the DSL/NDSL list.
CAS# 123334-05-4 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA
CAS# 123334-05-4 is not listed on the TSCA inventory. It is for research and development use only.

16. OTHER INFORMATION

Further information
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