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## Material Safety Data Sheet

### SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: YK-300 Preservatives  
Company: Suzhou YACOO Science Co., Ltd.  
Address: No.128,FangZhou Road,Suzhou Industrial Park,China  
Tel: 0512-87182055  
Fax: 0512-87182056

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Acute toxicity, oral (Class 4)  
Acute toxicity, inhalation (Class 5)  
Acute toxicity, percutaneous (Category 5)  
Skin Corrosion/Irritation (Class 1B)  
Severe eye Injury/Eye Irritation (Category 1)  
Skin Allergy (Category 1)  
Acute (short-term) Aquatic Hazard (Class 1)  
Long-term Aquatic Hazard (Class 1)

#### 2.2 Label elements

##### Pictograph



Warning word danger

##### Hazard statement

|             |   |
|-------------|---|
| H302        | Dysphagia.  |
| H313 + H333 | May be harmful by skin contact or inhalation.                         |
| H314        | Causes severe skin burns and eye damage.                              |
| H317        | May cause allergic skin reactions.                                    |
| H410        | It is highly toxic to aquatic organisms and has long lasting effects. |

##### Warning statement

##### preventive measure

|      |  |
|------|--|
| P261 | Avoid inhaling dust/smoke/gas/smoke/vapor/spray. |
|------|--|

|                               |  |
|-------------------------------|--|
| P264                          | Wash skin thoroughly after operation.  |
| P270                          | Do not eat, drink or smoke while using this product.   |
| P272                          | Contaminated coveralls shall not be taken out of the workplace.  |
| P273                          | Avoid release into the environment.  |
| P280                          | Wear protective gloves/protective clothing/protective eye mask/protective mask.  |
| Accident response             |  |
| P301 + P312 + P330            | If swallowed by mistake: If you feel unwell, call the emergency center. Rinse your mouth.  |
| P301 + P330 + P331            | If swallowed by mistake: gargle. Do not induce vomiting  |
| P303 + P361 + P353            | In case of skin (or hair) contamination: Remove all soiled clothing immediately. Wash your skin/shower with water.   |
| P304 + P340 + P310            | In case of aspiration and inhalation: Transfer the person to a place with fresh air and maintain a comfortable breathing position. Call emergency services/doctors immediately.                  |
| P305 + P351 + P338 + P310     | If entering eyes: Rinse carefully with water for several minutes. If you wear contact lenses and can easily remove them, remove them. Keep rinsing. Call emergency services/doctors immediately. |
| P312                          | If you feel unwell, call the emergency center/doctor.  |
| P333 + P313                   | If skin irritation or rash occurs: Seek medical attention.   |
| P362+P364                     | Remove stained clothing, wash before reuse.  |
| P391                          | Collect spills.  |
| Storage                       |  |
| P405                          | Be locked.   |
| Waste disposal                |  |
| P501                          | Dispose of contents/containers in accordance with local/regional/national/international regulations.   |
| Physical and chemical hazards | Information available at this time indicates no physical or chemical risk.   |
| Health hazard                 |  |
| H302                          | It is harmful to swallow.  |
| H333                          | May be harmful by inhalation.  |
| H313                          | May be harmful by skin contact.  |
| H314                          | Causes severe skin burns and eye damage.   |
| H318                          | Cause severe eye damage.   |
| H317                          | May cause allergic skin reactions.   |
| Environmental hazard          |  |

|               |   |
|---------------|---|
| H400          | It is extremely toxic to aquatic organisms.                           |
| H410          | It is highly toxic to aquatic organisms and has long lasting effects. |
| Other hazards | None  |

### **SECTION 3: Composition/information on ingredients**

Mixture

### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures If inhaled

General advice

Consult your doctor. Present this safety specification to the doctor on site.

Inhalation

If inhaled, remove victim to fresh air. If breathing stops, give artificial respiration. Consult your doctor.

Skin contact

Rinse with soap and plenty of water. Send the patient to hospital immediately. Consult your doctor.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult your doctor.

ingestion

Do not orally feed anything to an unconscious person. Rinse your mouth with water and ask your doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media

Extinguish fire with water mist, alcohol-resistant foam, dry powder or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxide, nitrogen oxide, sulfur oxide, hydrogen chloride gas.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel

Avoid inhaling vapors, aerosols or gases.

#### 6.2 Environmental precautions

If safety can be ensured, measures can be taken to prevent further leaks or spills. Keep the product out of the drain. Avoid releasing into the surrounding environment.

#### 6.3 Methods and materials for containment and cleaning up

It is absorbed by inert adsorbent materials and disposed of as hazardous waste. Store in a suitable closed handling container. Treatment in accordance with local regulations (see section 13).

6.4 Refer to other sections

See Section 13 for discard processing.

### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhaling steam or fog droplets.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Store at room temperature.

7.3 Specific end use(s)

No data available

### **SECTION 8: Exposure controls/personal protection**

8.1 Allowable concentration

Allowable concentration

Maximum allowable concentration

There are no known national limits for exposure.

8.2 Exposure Control

Appropriate technical control

Closed production process, strengthen ventilation. Provide safe shower and eye wash facilities.

Personal protective equipment

Eye protection

Masks and safety glasses must be tested and approved by official standards such as NIOSH (USA) or EN 166(EU)

Device for eye protection.

Hand protection

Gloves must be inspected before use.

Please remove the gloves using appropriate methods (do not touch the outer surface of the gloves) and avoid any skin area from touching the product. Dispose of contaminated gloves carefully after use in accordance with relevant laws and regulations and effective laboratory procedures. Wash and dry your hands. The gloves you choose must comply with EU regulation 89/686/EEC and EN376 derived from it.

Body and skin protection

Full set of anti-chemical reagent work clothes, flame retardant anti-static protective clothing ,

The type of protective equipment must be selected according to the concentration and quantity of hazardous substances in a particular workplace.

Respiratory system protection

If the hazard assessment indicates the need for air purifying gas masks, use full mask Multifunctional Gas Mask (US) or ABEK type (EN14387) gas mask canisters as alternate engineering controls. If a gas

mask is the only means of protection, use a full-hood air supply gas mask. Respirators use respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                   |
|---|-------------------|
| a) Appearance                                   | Form: liquid      |
| b) Odor   | No data available |
| c) Odor Threshold                               | No data available |
| d) pH   | No data available |
| e) Melting point/freezing point :               | No data available |
| f) Initial boiling point and boiling range:     | No data available |
| g) Flash point                                  | No data available |
| h) Evaporation rate                             | No data available |
| i) Flammability (solid, gas)                    | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapor pressure                               | No data available |
| l) Vapor density                                | No data available |
| m) Relative density                             | No data available |
| n) Water solubility                             | No data available |
| o) N-octanol/water partition coefficient        | No data available |
| p) Autoignition temperature                     | No data available |
| q) Decomposition temperature                    | No data available |
| r) Viscosity                                    | No data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

It is stable under the recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidant, reducing agent, amine, mercaptan

### 10.6 Hazardous decomposition products

In the event of fire, it will break down and form harmful substances. - Carbon oxides, nitrogen oxides, sulfur oxides, hydrogen chloride gases

Other decomposition products

No data available

## SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

LD50 Transoral - Rat - 862 mg/kg

Inhalation: No data available

LD50 Transdermal - Rabbit - 2,800 mg/kg

## 11.2 Skin irritation or corrosion

Skin A rabbit

Result: Corrosive

## 11.3 Eye irritation or corrosion

The eyes. - The rabbit

Results: No eye irritation

## 11.4 Respiratory or skin allergies

Guinea pig

Results: Skin contact can cause allergy

## 11.5 Germ cell mutagenicity

No data available.

## 11.6 Carcinogenicity

IARC: No component of this product greater than or equal to 0.1% has been identified by IARC as a probable or certain human carcinogen.

## 11.7 Reproductive toxicity

No data available

## 11.8 Specific target organ system toxicity (single exposure)

No data available

## 11.9 Specific target organ system toxicity (repeated exposure)

No data available

## 11.10 Inhalation hazard

No data available

## 11.11 Potential health effects

No data available

## 11.12 Signs and symptoms after exposure

No data available

## 11.13 Additional description

Registration of toxic effects of chemical substances

No data available

## **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

### 13.1 Products

Dispose of the remaining and non-recyclable solution with a licensed company.

### 13.2 Contaminated Containers and Packages

Dispose of as unused products.

## **SECTION 14: Transport information**

### 14.1 UN number

ADR/RID: 3265

IMDG: 3265

IATA: 3265

### 14.2 UN proper shipping name

ADR/RID: Organic acid corrosive liquid, not otherwise specified (5-chloro-2-methyl-2h-isothiazio-3-one)

IMDG: Organic acid corrosive liquid, not otherwise specified (5-chloro-2-methyl-2h-isothiazio-3-one)

IATA: Organic acid corrosive liquid, not otherwise specified (5-chloro-2-methyl-2h-isothiazio-3-one)

### 14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### 14.4 Packaging group

ADR/RID: I I

IMDG: I I

IATA: I I

### 14.5 Environmental hazards

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: Yes

### 14.6 Special precautions for user

No data available

## **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Please note that waste disposal should also meet local regulatory requirements.

If applicable, the chemical meets the requirements of the Regulations on the Safety Administration of Hazardous Chemicals (Decree No. 591 of The State Council of the People's Republic of China).

#### **SECTION 16: OTHER INFORMATION**

Safety technology - The full text of the hazard statement referred to in Parts 2 and 3 of the Book

- H301 Toxic when swallowed.
- H302 Harmful to swallow.
- H310 Lethal by skin contact.
- H313 Be harmful by skin contact.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.