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## Material Safety Data Sheet

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHES

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

Summary of emergency

crystalline white After inhalation: fresh air. In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. After eye contact: rinse out with plenty of water., Remove contact lenses. After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

#### 2.1 GHS Classification

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 2.3 Physical and chemical hazards

Referring to current information, no physical or chemical hazard.

#### 2.4 Health hazards

Referring to current information, no health hazard.

#### 2.5 Environmental hazards

Referring to current information, no environmental hazard.

#### 2.6 Other hazards - none

### SECTION 3: Composition/information on ingredients

Substance / Mixture: Substance

#### 3.1 Substances

Synonyms: 2-(Cyclohexylamino)ethanesulfonic acid

Formula: C<sub>8</sub>H<sub>17</sub>NO<sub>3</sub>S

Molecular weight: 207.29 g/mol



CAS-No.: 103-47-9

EC-No.: 203-115-6

No components need to be disclosed according to the applicable regulations.

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

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

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

##### 4.4 Notes to physician

No data available

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

##### 5.1 Extinguishing media Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides Nitrogen oxides (NO<sub>x</sub>) Sulfur oxides

##### 5.3 Advice for firefighters

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

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions  
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up  
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections  
For disposal see section 13.

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

7.1 Precautions for safe handling  
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities  
Storage conditions  
Tightly closed. Dry.

Storage class  
Storage class (TRGS 510): 13: Non Combustible Solids

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

8.1 Control parameters

Ingredients with workplace control parameters  
Contains no substances with occupational exposure limit values.

8.2 Exposure controls  
Appropriate engineering controls  
Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment  
Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### Splash contact

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)  
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

#### Control of environmental exposure

Do not let product enter drains.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- a) Physical state crystalline
- b) Color white
- c) Odor No data available
- d) Melting Melting point/range: 300 ° C  
point/freezing point
- e) Initial boiling point and boiling range No data available
- f) Flammability (solid, gas) No data available No
- g) Upper/lower flammability or explosive limits No data available
- h) Flash point No data available
- i) Autoignition temperature No data available
- j) Decomposition temperature No data available
- k) pH 3.0 - 5.0 at 103.6 g/l
- l) Viscosity Viscosity, kinematic: No data available  
Viscosity, dynamic: No data available
- m) Water solubility ca. 103.6 g/l
  
- n) Partition coefficient: n-octanol/water No data available
- o) Vapor pressure No data available
- p) Density No data available  
Relative density No data available

- q)Relative vapor density No data available
- r)Particle characteristics No data available
- s)Explosive properties No data available
- t)Oxidizing properties No data available

#### 9.2Other safety information

No data available

### **SECTION 10: Stability and reactivity**

#### 10.1Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### 10.2Possibility of hazardous reactions

No data available

#### 10.3Conditions to avoid

no information available

#### 10.4Incompatible materials

Strong oxidizing agents

#### 10.5Hazardous decomposition products

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

#### 11.1Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - female - > 2,000 mg/kg

(OECD Test Guideline 423)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 15 min

(OECD Test Guideline 439)

#### **Serious eye damage/eye irritation**

Eyes - Chicken eye

Result: No eye irritation

(OECD Test Guideline 438)

Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

Test Type: Ames test  
Test system: Escherichia coli/Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Carcinogenicity  
No data available

Reproductive toxicity  
No data available

Specific target organ toxicity - single exposure  
No data available

Specific target organ toxicity - repeated exposure  
No data available

Aspiration hazard  
No data available

#### 11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to daphnia and other aquatic  
static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

### Invertebrates Toxicity to algae

static test ErC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h  
(OECD Test Guideline 201)

### 12.2 Persistence and degradability

#### Biodegradability

aerobic - Exposure time 28 d

Result: 11.55 % - Not readily biodegradable.  
(OECD Test Guideline 301B)

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID: - IMDG: - IATA-DGR: -

#### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

#### 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA-DGR: -

#### 14.4 Packaging group

ADR/RID: -IMDG: -IATA-DGR: -

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

#### 14.6 Special precautions for user

#### 14.7 Incompatible materials

Strong oxidizing agents

#### Further information

Not classified as dangerous in the meaning of transport regulations.

### **SECTION 15: Regulatory information**

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

National regulatory information

Measures on the Environmental Administration of New Chemical Substances Registration

Registration/Notification number: B1A222210699

Downstream users need to comply with the conditions of safe use of the chemical, understand the environmental and health hazard and risk management measures identified on the SDS as well as the local/national regulations concerning the chemical.

#### Other regulations

Please pay attention on the waste treatment should also comply with local regulations requirement.

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

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.