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Initial preparation date: 2023.02.23 Web:www.yacoo.com.cn

E-mail:sales@yacoo.com.cn

Material Safety Data Sheet

#### SECTION 1:CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tricine

Company: Suzhou YACOO Science Co., Ltd.

Address: No.128, Fang Zhou Road, Suzhou Industral Park, China

Tel: 0512-87182055 Fax: 0512-87182056

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.30ther hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

3.1Substances

Synonyms: N-[Tris(hydroxymethyl)methyl]glycine

Formula: C6H13NO5

Molecular weight: 179,17 g/mol

CAS-No.: 5704-04-1 EC-No.: 227-193-6

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

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

4.1Description 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.

4.2Most 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

4.3Indication of any immediate medical attention and special treatment needed No data available

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

5.1Extinguishing media Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

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

5.2Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx) Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3Advice for firefighters

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

5.4Further information

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**

6.1Personal 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.

6.2Environmental precautions

Do not let product enter drains.

6.3Methods 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.

6.4Reference to other sections

For disposal see section 13.

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

7.1Precautions for safe handling

For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

No data available

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

8.1Control parameters





Ingredients with workplace control parameters

8.2Exposure 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**

9.1Information on basic physical and chemical properties

a) Appearance Form: powder Color: white

b)Odor No data available

c)Odor Threshold No data available





- d)pH No data available
- e)Melting point/freezing point Melting point: 187 ° C Decomposes on heating.
- 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) The product is not flammable. Flammability (solids)
- j)Upper/lower flammability or explosive limits No data available
- k) Vapor pressure < 0,1 hPa at 25 ° C OECD Test Guideline 104
- 1)Vapor density No data available
- m)Relative density ca.1,377 g/cm3 at 25 ° C -
- n)Water solubility 132,4 g/l at 25 ° C completely soluble
- o)Partition coefficient: n-octanol/water log Pow: -2,87 at 25 ° C -
- p)Autoignition temperature not auto-flammable
- q)Decomposition temperature No data available
- r)Viscosity No data available
- s)Explosive properties No data available
- t)Oxidizing properties No data available
- 9.20ther safety information

No data available

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

10.1Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2Chemical stability

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

10.3Possibility of hazardous reactions

No data available

10.4Conditions to avoid

no information available

10.5Incompatible materials

Strong oxidizing agents

10.6Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available In the event of fire: see section 5

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

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423)

Skin corrosion/irritation Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min (OECD Test Guideline 439)





Serious eye damage/eye irritation Eyes - In vitro study Result: No eye irritation - 6 h (OECD Test Guideline 492)

Respiratory or skin sensitization In vitro study Result: negative (OECD Test Guideline 442C)

Germ cell mutagenicity
No data available
Ames test
Escherichia coli/Salmonella typhimurium
Result: negative

### Carcinogenicity

IARC:No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

Additional Information

RTECS: Not available

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

### **SECTION 12: Ecological information**

12.1Toxicity

No data available

12.2Persistence and degradability

No data available

12.3Bioaccumulative potential

No data available

12.4Mobility in soil

No data available

12.5Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6Other adverse effects





No data available

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

13.1 Waste treatment methods Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14: Transport information**

14.1UN number

ADR/RID: - IMDG: - IATA: -

14.2UN proper shipping name ADR/RID: Not dangerous goods IMDG:Not dangerous goods IATA: Not dangerous goods

14.3Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4Packaging group

ADR/RID: - IMDG: - IATA: -

14.5Environmental hazards

ADR/RID: noIMDG Marine pollutant: noIATA: no

14.6Special precautions for user

No data available

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

15.1Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **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.

