



*Specialized in chemicals*

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## Material Safety Data Sheet

### Trimethoprim

#### Section 1: Chemical Product and Company Identification

##### 1.1 Product identifiers

**Molecular formula:** C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>

**CAS Nr:** 738-70-5

**EINECS:** 212-006-2

**Molecular weight:** 290.32

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

##### Details of the supplier of the safety data sheet

**Hefei TNJ Chemical Industry Co.,Ltd.**

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##### 1.3 Contact Information for Emergency: (0086) 551 65418678

#### Section 2: Composition and Information on Ingredients

##### 2.1 Substances

Synonyms : 2,4-Diamino-5-(3,4,5-trimethoxybenzyl)pyrimidine

Formula : C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight : 290,32 g/mol

#### Section 3: Hazards Identification

##### 3.1 Classification of the substance or mixture

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

This substance is not classified as dangerous according to Directive 67/548/EEC.

##### 3.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

**3.3 Other hazards** - none

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

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

### 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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 ° C

Keep in a dry place.

### 7.3 Specific end uses

no data available

## Section 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### 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).

##### 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 480 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 30 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, 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 CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist 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.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate 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: powder

b) Odour no data available

c) Odour Threshold no data available

d) pH no data available

e) Melting point/freezing

point

Melting point/range: 234 - 236 °C

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

k) Vapour pressure no data available

l) Vapour density no data available

m) Relative density no data available

n) Water solubility no data available

o) Partition coefficient: noctanol/

water

no data available

p) Autoignition

temperature

no data available

q) Decomposition

temperature

no data available

r) Viscosity no data available

s) Explosive properties no data available

t) Oxidizing properties no data available

### 9.2 Other safety information

no data available

## Section 10: Stability and Reactivity Data

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

**10.4 Conditions to avoid**

Avoid moisture.

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

Other decomposition products - no data available

**Section 11: Toxicological Information**

**11.1 Information on toxicological effects**

**Acute toxicity**

LD50 Oral - rat - > 5.300 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

Genotoxicity in vitro - Human - lymphocyte

Micronucleus test

Genotoxicity in vitro - Human - lymphocyte

Other mutation test systems

Genotoxicity in vitro - Human - lymphocyte

DNA inhibition

Genotoxicity in vitro - Human - lymphocyte

Sister chromatid exchange

Genotoxicity in vivo - rat - Unreported

sperm

**Carcinogenicity**

IARC: No component 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**

Reproductive toxicity - rat - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Signs and Symptoms of Exposure</b>	
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
<b>Additional Information</b>	
RTECS: UV8225000	

**Section 12: Ecological Information**

<b>12.1 Toxicity</b>
no data available
<b>12.2 Persistence and degradability</b>
no data available
<b>12.3 Bioaccumulative potential</b>
no data available
<b>12.4 Mobility in soil</b>
no data available
<b>12.5 Results of PBT and vPvB assessment</b>
no data available
<b>12.6 Other adverse effects</b>
no data available

**Section 13: Disposal Considerations**

<b>13.1 Waste treatment methods</b>
<b>Product</b>
Offer surplus and non-recyclable solutions to a licensed disposal company.
<b>Contaminated packaging</b>
Dispose of as unused product.

**Section 14: Transport Information**

<b>14.1 UN number</b>			
ADR/RID: -	IMDG: -	IATA: -	
<b>14.2 UN proper shipping name</b>			
ADR/RID: Not dangerous goods			
IMDG: Not dangerous goods			
IATA: Not dangerous goods			
<b>14.3 Transport hazard class(es)</b>			
ADR/RID: -	IMDG: -	IATA: -	
<b>14.4 Packaging group</b>			
ADR/RID: -	IMDG: -	IATA: -	

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

no data available

**Section 15: Other Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**15.2 Chemical Safety Assessment**

no data available

**Section 16: Other Information**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.