



CHUANG XIN

福建创鑫科技开发有限公司

FUJIAN CHUANG XIN SCIENCE AND DEVELOPS CO., LTD.

Tel : +86-591-83704867 Fax: +86-591-83753263 E-mail:kfb@fjirs.ac.cn

## MATERIAL SAFETY DATA SHEET

### Section 1. Product and company information

Product Name : 4-Methyl-1,3,2-dioxathiane 2-oxide (99.9%)

Synonyms : 1,3-butylene glycol sulfite (BS)

Company : FuJian Chuangxin Science and Develops Co.,Ltd.

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### Section 2. Composition/information on ingredients

Formula : C<sub>4</sub>H<sub>8</sub>O<sub>3</sub>S

Molecular Weight : 136.17 g/mol

CAS-No. : 4426-51-1

### Section 3. Hazards summarizing

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Irritating to eyes, respiratory system and skin.

### Section 4. First aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **Section 5. Fire-fighting measures**

### **Suitable extinguishing media**

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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

Carbon oxides, Sulphur oxides

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## **Section 6. Accidental release measures**

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

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

## **Section 7. Handling and storage**

### **Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## **Section 8. Exposure controls/personal protection**

## **Exposure controls**

### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### **Personal protective equipment**

#### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Section 9. Physical and chemical properties**

### **Appearance**

Form: solid

### **Safety data**

pH value : no data available

Melting point : no data available

Boiling point : no data available

Flash point : no data available

Auto-ignition temperature : no data available  
Lower explosive limits : no data available  
Upper explosive limits no data available  
Water solubility : no data available  
Vapour pressure : no data available  
Vapour density : no data available  
Relative density : no data available  
Partition coefficient (noctanol/water) : 0.314  
Decomposition temperature : no data available  
Viscosity : no data available  
Explosive properties : no data available  
Oxidizing properties : no data available

## **Section 10. Stability and reactivity**

### **Reactivity**

no data available

### **Chemical stability**

no data available

### **Possibility of hazardous reactions**

no data available

### **Conditions to avoid**

no data available

### **Incompatible materials**

Strong oxidizing agents

### **Hazardous decomposition products**

Other decomposition products - no data available

## **Section 11. Toxicological information**

### **Acute toxicity**

LD50 Intravenous - rat - 300 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Intravenous - mouse - 300 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Intravenous - cat - 175 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold.



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Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.

**Skin irritation and corrosion**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**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**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Additional Information**

RTECS: EK1225000

**Section 12. Ecological information**

**Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**Section 13. Disposal considerations**

**Waste treatment methods**

**Product**

This combustible material may be burned in a chemical incinerator equipped



with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14. Transport information**

**UN number**

ADR/RID: -                   IMDG: -                   IATA: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -                   IMDG: -                   IATA: -

**Packaging group**

ADR/RID:-                   IMDG: -                   IATA: -

**Environmental hazards**

ADR/RID: no                   IMDG Marine Pollutant: no                   IATA: no

**Special precautions for user**

no data available

**Section 15. Regulatory information**

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

**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. Fujian Chuangxin Science and Develops Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.