

### Section 1 - Product and Company Information

#### 1.1 Product identifiers

Product name : 2,3,4-Trihydroxybenzaldehyde

CAS-No. : 2144-08-3

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

Identified uses : Medical intermediate, Manufacture of substances

#### Manufacturer/Supplier

Lonwin Industry Group Limited

No 966 Huaxu Road, Qingpu District, Shanghai, 201702, P.R. China.

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<http://www.lonwinchem.com>

### Section 2 - Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements Labelling according Regulation (EC) No 1272/2008



Pictogram(s) :

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation. Page 2 of 7

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements none

### 2.3 Other 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

### 3.1 Substances

Formula : C7H6O4

Molecular weight : 154.12 g/mol

CAS-No. : 2144-08-3

EC-No. : 218-404-2

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
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2,3,4-Trihydroxybenzaldehyde		
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CAS-No. 2144-08-3	Skin Irrit. 2; Eye Irrit. 2; STOT	<= 100 %
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EC-No. 218-404-2	SE 3; H315, H319, H335	
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For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4 - First Aid Measures

### 4.1 Description of 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.

Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

### 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

## **Section 5 - Fire Fighting Measures**

### 5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Page 3 of 7

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

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information

No data available

## **Section 6 - Accidental Release Measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

6.2. Ensure adequate ventilation.

Evacuate personnel to safe areas. Avoid breathing dust. 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

Pick up and arrange disposal without creating dust. 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 Avoid contact with skin and eyes.

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air sensitive. Storage class (TRGS 510): Non Combustible Solids

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**

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 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. Full contact Page 4 of 7 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 CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEK P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure

Do not let product enter drains.

## Section 9 - Physical/Chemical Properties

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: powder Colour: yellow
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point Melting point/range: 159 - 161 °C - lit. 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) 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: n octanol/water No data available  
p) Auto-ignition No data available Page 5 of 7 temperature  
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

- 10.1 Reactivity  
No data available  
10.2 Chemical stability Stable under 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 bases, Strong oxidizing agents  
10.6 Hazardous decomposition products  
Hazardous decomposition products formed under fire conditions. - Carbon oxides  
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 - Mouse - 2,195 mg/kg(2,3,4-Trihydroxybenzaldehyde)  
Skin corrosion/irritation No data available(2,3,4-Trihydroxybenzaldehyde)  
Serious eye damage/eye irritation No data available(2,3,4-Trihydroxybenzaldehyde)  
Respiratory or skin sensitisation No data available(2,3,4-Trihydroxybenzaldehyde)  
Germ cell mutagenicity No data available(2,3,4-Trihydroxybenzaldehyde) 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(2,3,4-Trihydroxybenzaldehyde) Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.(2,3,4-Trihydroxybenzaldehyde) Specific target organ toxicity - repeated exposure No data available Page 6 of 7 Aspiration hazard No data available(2,3,4-Trihydroxybenzaldehyde)  
Additional Information RTECS: CU8439800 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2,3,4-Trihydroxybenzaldehyde)

## 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(2,3,4-Trihydroxybenzaldehyde) 12.5 Results 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.

12.6 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. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Contaminated packaging Dispose of as unused product.

### **Section 14 - Transport Information**

14.1 UN number \

ADR/RID: - IMDG: - IATA: -

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

14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: -

14.4 Packaging group 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 - Regulatory Information**

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

1907/2006. 15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out.

### **Section 16 - Other Information**

#### **Warranty**

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 **Lonwin Industry Group Limited** 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 **Lonwin Industry Group Limited** has been advise the possibility of such damages.