

**SAFETY DATA SHEET**

Create Date: 2021-11-15

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Glutathione Agarose Resin  
Cat. number : ZXB-06-153  
CAS number : -  
Synonyms : -

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

Identified uses : Laboratory chemicals, manufacture of substances. It is for research purposes only.

**1.3 Details of the supplier of the safety data sheet**

Address : Hinter den Gärten  
5689173 Lonsee  
Germany  
Email : info@zellx.de  
Phone : +49(0)731 55211521  
Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable Liquid (Category 4)  
Skin Corrosion (Category 2)  
Eye Irritation (Category 2A)  
Respiratory Sensitizer (Category 1)  
Skin Sensitizer (Category 1)  
Carcinogenicity (Category 1A)  
Specific Target Organ Toxicity, Repeated exposure (Category 2)  
Reproductive Toxicity (Category 1A)

**2.2 Label elements and precautionary statements**

Pictogram : 

Signal word : Danger

Hazard statement(s) : H227: Combustible liquid  
 H315: Causes skin irritation  
 H319: Causes serious eye irritation  
 H317: May cause an allergic skin reaction  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 H350: May cause cancer  
 H360: May damage fertility or the unborn child  
 H373: May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s) : P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
 P262: Do not get in eyes, on skin, or on clothing  
 P263: Avoid contact during pregnancy/while nursing  
 P264: Wash skin thoroughly after handling  
 P332+313: If skin irritation occurs: Get medical advice/attention  
 P337+313: If eye irritation persists get medical advice/attention

### 2.3 NFPA Rating

Health hazard : 2  
 Fire hazard : 2  
 Reactivity hazard : 0

### 2.4 HMIS Rating

Health hazard : 2  
 Chronic health hazard : -  
 Flammability : 2  
 Physical hazard : 0

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1 Substances

| Substance   | CAS#      | EC# | Concentration |
|---|-----------|-----|---------------|
| Agarose Resin<br>M.F: N/A<br>M.W: N/A                               | 9012-36-6 | -   | 50% v/v       |
| Ethanol<br>M.F: C <sub>2</sub> H <sub>6</sub> O<br>M.W: 46.07 g/mol | 64-17-5   | -   | <20%          |

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### In case of inhalation

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. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Immediately rinse out with water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Remove contact lenses. Consult a physician.

#### In case of ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water and drink plenty of 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 labeling (see section 2). And /or in section 11.

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

Not available

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## SECTION 5: FIRE FIGHTING MEASURES

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### 5.1 Conditions of flammability:

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

### 5.2 Suitable extinguishing media

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

### 5.3 Special hazards arising from the substance

During a fire, highly toxic gases may be generated by thermal decomposition or combustion  
– Unknown.

### 5.4 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

**For personal protection see section 8**

### 6.2 Environmental precautions

Do not let product enter drains.

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

Soak up with absorbent material, discard.

**For proper disposal see section 13**

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Always wear personal protective equipment (PPE)

**For precautions see section 8**

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

Storage conditions : Keep container tightly closed.

Store at 4°C. Do not freeze

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Engineering controls

Contains no substances with occupational exposure limit values.

### 8.3 Personal protective equipment

Eye/face protection : Face shield and safety glasses 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 type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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 particle respirator type N100 (US) or type P3 (EN 143) or DIN 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).

Other Protective Clothing or Equipment : Wear appropriate protective clothing to prevent exposure.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

|    |   |                         |
|----|---|-------------------------|
| a) | Appearance                                    | : Liquid (resin slurry) |
| b) | Physical states                               | : Liquid                |
| c) | Odor  | : Slight alcohol odor   |
| d) | Odor threshold                                | : Not available         |
| e) | Melting point                                 | : Not available.        |
| f) | Boiling point range                           | : Not available         |
| g) | pH  | : Not available         |
| h) | Freezing Point                                | : Not available         |
| i) | Flash point                                   | : Not available         |
| j) | Evaporation rate                              | : Not available         |
| k) | Flammability                                  | : Not available         |
| l) | Upper/lower flammability or explosive limits: | : Not available         |
| m) | Vapor pressure                                | : Not available         |
| n) | Vapor density                                 | : Not available         |
| o) | Relative density                              | : Not available         |
| p) | Solubility                                    | : Not available         |
| q) | Partition coefficient:n-octanol/water         | : Not available         |
| r) | Auto-ignition temperature                     | : Not available         |
| s) | Decomposition temperature                     | : Not available         |
| t) | Viscosity                                     | : Not available         |

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

Not available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Not available

### 10.4 Conditions to avoid

Do not Exposure to Incompatible materials

### 10.5 Incompatible materials

Strong oxidizing agents and must be avoided.

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Unknown

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

Not available

### 11.2 Skin corrosion/irritation

Not available

### 11.3 Respiratory or skin sensitization

Not available

### 11.4 Serious eye damage/irritation

Not available

### 11.5 Germ cell mutagenicity

Not available

### 11.6 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.

ACGIH : 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 ACGIH.

NTP : 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 NTP.

OSHA : 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 OSHA.

### 11.7 Reproductive toxicity

Not available

### 11.8 Specific target organ toxicity – single exposure

Not available

### 11.9 Specific target organ toxicity – repeated exposure

Not available

### 11.10 Aspiration hazard

Not available

### 11.11 Likely routes of exposure

Respiratory organs, mouth, skin, and eyes.

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

No toxicity data available

### 12.2 Persistence and degradability

No Inherent biodegradability data available

### 12.3 Bioaccumulative potential

No Bioaccumulative potential data available

### 12.4 Mobility in soil

No nobility in soil data available

### 12.5 Other adverse effect

No other adverse effect data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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Dispose of product in accordance with local rules and regulations

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## SECTION 14: TRANSPORTATION INFORMATION

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### 14.1 DOT (US)

|                       |                                      |
|-----------------------|--------------------------------------|
| UN Number:            | NA-1993                              |
| Proper shipping name: | Combustible liquid, n.o.s. (ethanol) |
| Class:                |                                      |
| Packing Group:        | III                                  |
| Marine Pollutant:     |                                      |

### 14.2 IMDG

Not a dangerous good under IMDG regulations.

### 14.3 IATA

Not a dangerous good under IATA regulations.

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## SECTION 15: REGULATORY INFORMATION

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### 15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

SARA 311/312 No SARA Hazards

### 15.2 Right to know components

Massachusetts : Ethanol CAS No.: 64-17-5 [<20%]

Pennsylvania : Ethanol CAS No.: 64-17-5 [<20%]

New Jersey : Ethanol CAS No.: 64-17-5 [<20%]

California : This product contains no chemicals which are known to the State of  
proposition 65 California to cause cancer, or birth defects or other reproductive harm.  
components

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## SECTION 16: OTHER INFORMATION

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### 16.1 Disclaimer

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### 16.2 Preparation Information

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