



Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Catalog number MCA-4E4
Product name Mouse Monoclonal Antibody to β -Tubulin

Company/undertaking identification

EnCor Biotechnology Inc.
4949 SW 41st Boulevard, Suites 40, 50, & 60
Gainesville, FL 32608
United States
+1 352 372 7022
admin@encorbio.com

24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC.

Within the USA + Canada: 1-800-424-9300 and 1-703-527-3887
Outside the USA + Canada: +1-703-741-5970

For research use only. Not for use in diagnostic procedures.

SECTION 2: Composition/Information on Ingredients

| Component | CAS No. | Common name | EINECS-No | Weight-% |
|--------------------------------------|------------|-------------|-----------|----------|
| SODIUM AZIDE 26628-22-8 (0-0.1) | 26628-22-8 | - | 247-852-1 | 0-0.1 |
| Glycerol 56-81-5 (40-70) | 56-81-5 | - | 200-289-5 | 40-70 |

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. We recommend handling all chemicals with caution.

SECTION 3: Hazards Identification

GHS Classification

Signal Word: None
Hazard pictograms: None
Health hazards: Not Hazardous
Physical hazards: Not Hazardous

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Environmental hazards: Not Hazardous
Hazard Statements: Not Applicable
Precautionary Statements:
Prevention: Not Applicable
Response: Not Applicable
Storage: Not Applicable
Disposal: Not Applicable
Other hazards: Not Applicable

HMIS

Health: 0
Flammability: 0
Reactivity: 0

SECTION 4: First Aid Measures

Description of first aid measures

Skin contact Rinse skin with water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed Not Applicable

Indication of any immediate medical attention and special treatment needed None

SECTION 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media No information available.

Special hazards arising from the substance or mixture Not known

Protective equipment and precautions for firefighters Standard procedure for chemical fires.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See section 8 for more information

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

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SECTION 7: Handling and Storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For research use only

SECTION 8: Exposure Controls/Personal Protection

Control parameters

| Chemical Name | OSHA PEL | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|--|--------------------|-----------------|------------------|
| SODIUM AZIDE | None | None | None | None |
| Glycerol | 15 mg/m ³ 5 mg/m ³ | None | None | None |

| Chemical Name | Brazil - OEL - TWAs (LTs) | Brazil - OEL - Ceilings | Brazil - OEL - Skin Designations |
|---------------|---------------------------|-------------------------|----------------------------------|
| SODIUM AZIDE | None | None | None |
| Glycerol | None | None | None |

Engineering Measures Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear suitable protective clothing.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No special environmental precautions required.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance liquid

Odor No data

Odor Threshold No data

Molecular Weight No data

pH No data

Melting point / melting range °C No data °F No data

Boiling point / boiling range °C No data °F No data

Flash point °C No data °F No data

Autoignition Temperature °C No data °F No data

Decomposition temperature °C No data °F No data

Evaporation rate No data

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Flammability (solid, gas) No data
Upper explosion limit No data
Lower explosion limit No data
Vapor Pressure No data
Vapor density No data
Relative density No data
Specific gravity No data
Solubility No data
Partition coefficient: n-octanol/water No data
Viscosity No data
Explosive properties No data
Oxidizing properties No data

Other information No data.

SECTION 10: Stability and Reactivity

Reactivity Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
Chemical stability Stable under normal conditions.
Possibility of hazardous reactions Hazardous reaction has not been reported.
Conditions to avoid No information available.
Incompatible materials No dangerous reaction known under conditions of normal use.
Hazardous decomposition products No data available.

SECTION 11: Toxicological Information

Information on toxicological effects

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------------------------------|-------------------|-------------------|
| SODIUM AZIDE | = 27 mg/kg (Rat)=27 mg/kg (Mouse) | =20 mg/kg(Rat) | No data available |
| Glycerol | = 12600 mg/kg (Rat) | No data available | >570mg/m3 (Rat) |

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification.
Skin corrosion/irritation Data are conclusive but insufficient for classification
Serious eye damage/irritation Data are conclusive but insufficient for classification
Respiratory or skin sensitization Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT)–single exposure Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT)–repeated exposure Data are conclusive but insufficient for classification
Carcinogenicity Data are conclusive but insufficient for classification
Germ cell mutagenicity Data are conclusive but insufficient for classification
Reproductive toxicity Data are conclusive but insufficient for classification
Aspiration hazard Data are conclusive but insufficient for classification

SECTION 12: Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Microtox Data | log Pow |
|---------------|-------------------|---|------------------|---------------|---------|
| | | | | | |

| | | | | | |
|--------------|-------------------|--|-------------------|-------------------|-------------------|
| SODIUM AZIDE | No data available | No data available | No data available | No data available | No data available |
| Glycerol | No data available | Daphnia magna EC50>500 mg/L (24 h) | No data available | No data available | logPow-1.76 |

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment No information available.

Other adverse effects No information available.

SECTION 13: Disposal Considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

SECTION 14: Transportation Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

SECTION 15: Regulatory Information

| Component | US TSCA |
|-----------------------------------|---------|
| SODIUM AZIDE 26628-22-8 (0-0.1) | Listed |
| Glycerol 56-81-5 (40-70) | Listed |

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Weight-%</u> | <u>SARA 313 - Threshold Values</u> |
|----------------------|----------------|-----------------|------------------------------------|
| SODIUM AZIDE | 26628-22-8 | 0-0.1 | 1.0 |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

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US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations(CPR) and the SDS contains all the information required by the CPR.

National Regulations – Brazil

| Chemical Name | CAS No. | Brazil - National Agency for Sanitary Surveillance (ANVISA) | Brazil - National List of Carcinogen Agents to Humans (LINACH) |
|----------------------|----------------|--|---|
| SODIUM AZIDE | 26628-22-8 | Not Listed | Not Listed |
| Glycerol | 56-81-5 | Not Listed | Not Listed |

SECTION 16: Other Information

For research use only. Not for use in diagnostic procedures.

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

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