

Safety Data Sheet

MANUFACTURER



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1. Product Identification

Product Name: BSA-MMAE (1:1)
Conjugate
CAS No.: N/A
Molecular Weight: ~45 KDa

Chemical Formula: N/A
Part No.: CM53209

2. Composition/Information on Ingredients

Substance Name: HRP-MMAE (1:1) conjugate

Characterization: protein-drug conjugate consisting of horseradish peroxidase (HRP) linked to a cytotoxic agent that is a derivative of monomethyl auristatin E (MMAE)

Ingredients: 1.5 mL centrifuge tube containing purified and lyophilized 0.5 mg of HRP-MMAE (1:1) conjugate from phosphate buffer saline

3. Hazards Identification

3.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 4), H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

Precautionary statement(s)

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – no further information available

4. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically.

Inhalation: Remove to fresh air and keep him/her calm. In the event of symptoms get medical treatment.

Skin Contact: Remove immediately contaminated clothes, wash affected skin with water and soap – do not use any solvents.

Eye Contact: Rinse immediately with tap water for 10 minutes – open eyelids forcibly.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: does not present a fire hazard

Advice for firefighters: precipitate gases/vapours/mists with water spray.

Further information: no data available

6. Accidental Spill Measures

Personal precautions, protective equipment and emergency procedures: use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: no special environmental precautions required.

Methods and materials for containment and cleaning up: wash contaminated surfaces with sodium hydroxide solution, $c(\text{NaOH}) = 0.5 \text{ mol/l}$ to 1 mol/l , and rinse with water.

Reference to other sections: for disposal see section 13.

7. Handling and Storage

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. Normal measures for preventive fire protection. For precautions see section 3.2.

Conditions for safe storage, including any incompatibilities: Store below $-20 \text{ }^\circ\text{C}$ with tightly closed container.

8. Exposure Controls/Personal Protection

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.

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: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (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.

9. Physical and Chemical Properties

Physical State and Appearance: colorless to off-white solid

Odor: No information available

Solubility: No information available

Specific Gravity: No information available

pH: No information available

Boiling Point: No information available

Freezing/Melting Point: No information available

Flash Point: No information available

Vapor Density (Air=1): N/A

Vapor Pressure: N/A

Evaporation Rate (Butyl acetate =1): No information available

Partition coefficient; n-octanol/water: No information available

Autoignition Temperature: No information available

Decomposition Temperature: No information available

Viscosity: N/A

Molecular Formula: N/A

Molecular Weight: 45 KDa

10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Hazardous Decomposition Products: No information available

Hazardous Polymerization: No information available

Incompatibilities with Various Substances: No information available.

Conditions to Avoid: No information available

11. Toxicological Information

Information on toxicological effects:

Inhalation: No data available

Injection: No data available

Dermal: No data available

Eye contact: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: NO data available

Carcinogenicity: Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA

Reproductive Toxicity: No data available

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No information available

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

12. Ecological Information

Environmental Fate: No information available

Physical: No information available

Environmental Toxicity: No information available

13. Disposal Considerations

Waste treatment methods

Product: offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging: dispose of as unused product.

14. Transport Information

DOT (US): Not dangerous goods

IATA: Not dangerous goods

IMDG: Not dangerous goods

15. Regulatory Information

- The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.

- In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEPE Hotline (1-609-292-5560) and to local officials.

- State and local regulations vary and may impose additional reporting requirements.

16. Other Information

Full text of H-Statements referred to under sections 3 and 4.

Acute Tox. Acute toxicity

H302 Harmful if swallowed.

HMIS Rating

Health hazard: 1

Chronic Health Hazard: *

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

References:

Chemical Abstract databases. OSHA, SARA. MMAE SDS.

Other Special Considerations: Not available

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Product Use: Laboratory Reagent.

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Prepared by: CellMosaic, Inc. Health and Safety