



Materials Safety Data Sheet

1. Product and Supplier Identification

Products covered by this MSDS:

- Soluble MHC monomers
- Biotin conjugated MHC monomers
- MHC tetramer streptavidin conjugates to the following reporter molecules: Phycoerythrin (PE), allophycocyanin (APC), Brilliant Violet 421 (BV421), fluorescein (FL or FITC), Alexa Fluor 488, Alexa Fluor 568, Alexa Fluor 647, Alexa Fluor 680
- Other purified recombinant proteins
- Lipid CD1d ligands

Supplier: NIH Tetramer Core Facility
Yerkes Research Center at Emory University
954 Gatewood Rd
Atlanta, GA 30329
(404) 727-8117

2. Composition/Information on Hazardous Ingredients

May contain less than 0.1% sodium azide (CAS 26628-22-8) or pentachlorophenol (CAS 87-86-5) as preservative. According to the OSHA Hazard Communication Standard 29CFR 1910:1200, these products are not considered hazardous at low concentration.

3. Hazards Identification

Always follow good laboratory and industrial hygiene practices and wear proper personal protective equipment when handling chemicals.

Potential Health Effects:

Eye Contact: May Cause Eye Irritation.

Skin Contact: May Cause Skin Irritation.

Inhalation: May Cause Irritation.

Ingestion: No Recognized Ingestion Hazard.

Hazard Pictogram: none

4. First Aid Measures

May have irritant effects, treat symptomatically

Inhalation: Move to fresh air.

Skin contact: Wash with soap and water.

Eye contact: Rinse with water.

Ingestion: Rinse with water.

In all cases, seek medical attention if symptoms develop or persist.

5. Firefighting measures

There is no unusual fire or explosion hazard associated with these products.

Flash point: Not applicable

Flammable Limits in Air: Not applicable

Extinguishing media: Water, carbon dioxide, dry chemical powder, alcohol resistant foam

Fire fighting procedures: Use respirator

6. Accidental release measures

If spilled or leaked, flush the area with water and drain to the sewer if allowed.

Otherwise, collect on absorbent and dispose in approved landfill. In any case, waste disposal should be in accordance with all Federal, State, and Local environmental regulations.

7. Handling and Storage

Keep container closed when not in use. Store at 4°C or -80°C as directed on product information sheet. Wear appropriate personal protective equipment when handling.

8. Exposure control/personal protection

Handle in a well-ventilated space. Protective gloves and safety glasses or goggles are recommended. Follow good laboratory and industrial hygiene practices.

9. Physical and chemical properties

Lyophilized lipid CD1d ligands are a colorless, odorless dry powder.

Monomer, tetramer or recombinant protein solutions are a clear, odorless water-based liquid (frozen if shipped on dry ice). May be colorless or colored based on inclusion of tetramer reporter molecule (listed in Section 1).

Odor threshold:	Not applicable
pH:	Neutral
Boiling point:	Not available
Melting point:	Not available
Freezing point:	Not available
Specific gravity:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Evaporation rate:	Not available
Solubility:	Water

10. Stability and reactivity

Stable under recommended storage conditions. No hazardous reactions, chemical incompatibilities or decomposition products are known.

11. Toxicological information

None known or identified.

12. Ecological information

None available.

13. Disposal considerations

No special considerations. Waste disposal should be in accordance with all Federal, State, and Local environmental regulations.

14. Transportation information

Not hazardous or dangerous goods. There are no special transportation instructions or regulations.

All of the information presented here is accurate to the best of our knowledge but is not all inclusive and should only be used as a guide.