SAFETY DATA SHEET

Product Identifier: Cadmium Conjugated Proteins with Preservatives
Catalog ID numbers: Cat# 3106XXXX-311XXXXX

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General
Fluidigm Corporation
2 Tower Place, Suite 2000, South San Francisco, CA 94080
Main (U.S.): +1 (650) 266-6000
E-mail: techsupport@fluidigm.com

Emergency telephone number
+ (650) 266-6100 (outside US)
+ (866) 358-4354 (toll free)

Product identifier
Cadmium Conjugated Proteins with Preservatives

Synonyms
None identified

Trade names
None identified

Chemical family
Mixture - contains a polypeptide.

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

For Research Use Only.

Note
This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product/mixture. Workers manufacturing this product/mixture should consult the SDS of each hazardous ingredient for hazard information and handling recommendations.

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture
The classification and labeling listed below is for bulk formulation.

Globally Harmonized System [GHS]
Not classified

Label elements

GHS hazard pictogram
None required

GHS signal word
None required

GHS hazard statements
None required

GHS precautionary statements
None required

Other hazards
Cadmium Conjugated Proteins with Preservatives is an antibody-based mixture. In a workplace setting, the likelihood of systemic effects following accidental ingestion is low, due to the rapid breakdown of proteins in the digestive tract. Based on the large molecular weight of proteins, systemic absorption following inhalation or dermal contact is anticipated to be low.

Note
This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>EINECS/ELINCS#</th>
<th>Amount</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibodies</td>
<td>N/A</td>
<td>N/A</td>
<td>&lt;0.1%</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Fluidigm Corporation
Issue date: Aug-2020, Revision: 01

Cadmium Conjugated Proteins with Preservatives
Page 1 of 7
Note
The primary ingredient of this mixture is sterile water (~98%). The substance listed above is not classified but is listed because it is the key component and its toxicologic properties have not yet been fully characterized. The remaining components are not hazardous and/or present at amounts below reportable limits.

Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret. See Section 16 for full text of GHS classifications.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed
No. If exposed or concerned: Get medical advice/attention.

Eye Contact
If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact
Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation
Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

Ingestion
Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

Protection of first aid responders
See Section 8 for Exposure Controls/Personal Protection recommendations.

Most important symptoms and effects, both acute and delayed
See Sections 2 and 11.

Indication of immediate medical attention and special treatment needed, if necessary
Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media
Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.

Specific hazards arising from the substance or mixture
No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur, and other cadmium- chlorine-, phosphorus-, sulfur- and sodium-containing compounds.

Flammability/Explosivity
No explosivity data identified. As product is an aqueous solution, it is not expected to be flammable.

Advice for firefighters
Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
SAFETY DATA SHEET

Product Identifier: Cadmium Conjugated Proteins with Preservatives
Catalog ID numbers: Cat# 3106XXXX-311XXXXXX
SDS ID: SDS-00021 Rev 01

Personal precautions, protective equipment and emergency procedures

If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe vapors/mist/spray.

Environmental precautions

Do not empty into drains. Avoid release to the environment.

Methods and material for containment and cleaning up

DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice with an appropriate solvent (see Section 9).

Reference to other sections

See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

Conditions for safe storage including any incompatibilities

Store at 2-8°C in tightly closed container. Avoid strong oxidizers. Store in sealed containers that are appropriately labeled.

Specific end use(s)

No information identified.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Note

Wash hands, face and other potentially exposed areas immediately in the event of physical contact.

Control Parameters/Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Compound</th>
<th>Issuer</th>
<th>Type</th>
<th>OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibodies</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Exposure/Engineering controls

None required for normal handling of packaged product. If handling bulk product: Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. If vials are crushed or broken, or if handling bulk formulation: Utilize closed and sealed systems whenever possible. Solutions used for procedures where aerosolization may occur (e.g., pipetting, spraying, pumping, open transfers,) must be handled using a control device such as a ventilated enclosure. Control the potential for spills and leaks by securing all connections. Use clean-in-place systems.

Respiratory protection

None required for normal handling of packaged product. If handling bulk formulation: Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls.

Hand protection

None required for normal handling of packaged product. If handling bulk formulation: Wear disposable nitrile or other impervious gloves. Double gloves should be worn for direct handling of solutions. When the material is diluted in an organic solvent, wear gloves that provide protection against the solvent.

Skin protection

None required for normal handling of packaged product. If handling bulk formulation: Wear disposable outergarment appropriate to the task, booties, two pairs of gloves and safety glasses with side shields. Employees must be trained in proper gowning and degowning practices. An anteroom or transition area is recommended for gowning and degowning.
Eye/face protection

None required for normal handling of packaged product. If handling bulk formulation: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

Environmental Exposure Controls

Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

Other protective measures

Wash hands in the event of contact with product, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aqueous solution</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information identified.</td>
</tr>
<tr>
<td>pH</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble.</td>
</tr>
<tr>
<td>Solvent solubility</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information identified.</td>
</tr>
</tbody>
</table>

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES...continued
SAFETY DATA SHEET

Product Identifier: Cadmium Conjugated Proteins with Preservatives
Catalog ID numbers: Cat# 3106XXXX-311XXXXXX

Other information
- Molecular formula: Not applicable (Mixture)
- Molecular weight: Not applicable (Mixture)

SECTION 10 - STABILITY AND REACTIVITY
- Reactivity: No information identified.
- Chemical stability: No information identified.
- Possibility of hazardous reactions: No information identified.
- Conditions to avoid: No information identified.
- Incompatible materials: No information identified.
- Hazardous decomposition products: No information identified.

SECTION 11 - TOXICOLOGICAL INFORMATION

Note
No data for this product/mixture were identified. The following data describe the individual ingredients where applicable.

Information on toxicological effects
- Route of entry: Large proteins are unlikely to be absorbed through inhalation, skin contact, or ingestion.
- Acute toxicity
  - Antibodies: --
- Irritation/Corrosion: No studies identified.
- Sensitization: No studies identified.

STOT-single exposure: No studies identified.

STOT-repeated exposure/Repeat-dose toxicity: No studies identified.

Reproductive toxicity: No studies identified.

Developmental toxicity: No studies identified.

Genotoxicity: No studies identified.

Carcinogenicity: No studies identified. None of the components of this mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

Aspiration hazard: No data available.

Human health data: See "Section 2 - Other Hazards"

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity
SAFETY DATA SHEET

Product Identifier: Cadmium Conjugated Proteins with Preservatives  
SDS ID: SDS-00021 Rev 01  
Catalog ID numbers: Cat# 3106XXXX-311XXXXXX

### Compound Antibodies

<table>
<thead>
<tr>
<th>Type</th>
<th>Species</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antibodies</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

### Persistence and Degradability

Polypeptides are expected to degrade rapidly when released into the environment.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

Not performed.

### Other adverse effects

No data available.

### Note

No special precautions are necessary.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### Waste treatment methods

Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

## SECTION 14 - TRANSPORT INFORMATION

### Transport

Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

### UN number

None assigned.

### UN proper shipping Name

None assigned.

### Transport hazard classes and packing group

None assigned.

### Environmental hazards

This product/mixture is not regulated as an environmental hazard or a marine pollutant.

### Special precautions for users

Avoid release to the environment.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15 - REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

### Chemical safety assessment

Not conducted.

### TSCA status

Not listed.

### SARA section 313

Not listed.

### California proposition 65

Not listed.
SECTION 16 - OTHER INFORMATION

Full text of H phrases and GHS classifications
Not applicable.

Sources of data
Information from published literature and internal company data.

Abbreviations
ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; NIOSH - The National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Issue Date
August 2020

Disclaimer
The information and recommendations in this safety data sheet are, to the best of Supplier's knowledge, accurate as of the date of issue. Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product. For Research Use Only. Not for use in diagnostic procedures.