

Product Identifier: Cadmium Conjugated Proteins with Preservatives

Catalog ID numbers: Cat# 3106XXXX-311XXXXXX

SDS ID: SDS-00021 Rev 01

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

Contact information

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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**

mixture

Classification of the substance or 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

Cadmium Conjugated Proteins with Preservatives is an antibody-based mixture. In a workplace Other hazards

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** 

EINECS/ **GHS Classification** Ingredient CAS# **Amount** 

**ELINCS#** 

Antibodies N/A < 0.1% Not classified N/A



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Note

The primary ingredient of this mixture is sterile water (~98%). The substance listed above is

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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.

If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of **Eye Contact** 

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.

Do not induce vomiting unless directed by medical personnel. Do not give anything to drink Ingestion

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

Indication of immediate medical attention and special treatment

needed, if necessary

See Sections 2 and 11.

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**

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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.

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**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** 

Compound **OEL** Issuer Type Antibodies

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

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.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION...continued

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**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.

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An emergency eye wash station should be available.

**Environmental** Avoid release to the environment and operate within closed systems wherever practicable. **Exposure Controls** Air and liquid emissions should be directed to appropriate pollution control devices. In case

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

Appearance Aqueous solution

**Color** Clear

Odor No information identified.

Odor threshold No information identified.

**pH** No information identified.

Melting point/freezing point No information identified.

Initial boiling point and boiling

range

No information identified.

Flash point No information identified.

**Evaporation rate** No information identified.

Flammability (solid, gas) No information identified.

Upper/lower flammability or

explosive limits

No information identified.

Vapor pressure No information identified.

Vapor density Not applicable.

Relative density No information identified.

Water solubility Soluble.

Solvent solubility No information identified.

Partition coefficient (n-

octanol/water)

No information identified.

Auto-ignition

temperature

No information identified.

**Decomposition temperature** No information identified.

Viscosity No information identified.

Explosive properties No information identified.

Oxidizing properties No information identified.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES...continued

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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** 

Compound <u>Type</u> Route Species 5 4 1 <u>Dose</u>

Antibodies

Irritation/Corrosion No studies identified.

Sensitization No studies identified.

STOT-single exposure No studies identified.

STOT-repeated exposure/Repeat- No studies identified.

dose toxicity

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** 

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<u>Compound</u> <u>Type</u> <u>Species</u> <u>Concentration</u>

Antibodies -- -- --

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 None assigned.

Name

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

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.

substance or mixture

Chemical safety assessment Not conducted.

TSCA status Not listed.

SARA section 313 Not listed.

### SECTION 15 - REGULATORY INFORMATION...continued

California proposition 65 Not listed.

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Additional information No other information identified.

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

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