

Revision: 01

Revision Date: April 27, 2020

Product Name:	Other Means of Identification. Catalog #:	
CRYO <i>check</i> ™ Chromogenic Factor VIII	CCCF08	

Product Manufacturer:	
Precision BioLogic 140 Eileen Stubbs Avenue Dartmouth, NS B3B 0A9 Canada	Phone: +1.902.468.6422 Toll-free in US and CA: +1.800.267.2796 Fax: +1.902.468.6421 Toll-free in US and CA: +1.800.267.0796 www.precisionbiologic.com

CRYOcheck Chromogenic Factor VIII consists of four components. This Safety Data Sheet contains information for each component of CRYOcheck Chromogenic Factor VIII listed in the table below.

cRYO <i>check</i> Chromogenic Factor VIII Component	Component Type	Kit Configuration	Mixture Classification According to 1272/2008/EC Regulation	Mixture Classification According to OSHA hazard classification in accordance with 29 CFR 1910.1200, and Hazardous Product Regulation HPR (WHMIS 2015)	Page Reference
Reagent 1	Mixture	4 x 1.25 mL	Not classified	Not classified	Page 2
Reagent 2	Mixture	4 x 1.25 mL	Not classified	Not classified	Page 11
Reagent 3	Mixture	4 x 1.25 mL	Not classified	Not classified	Page 20
Diluent Buffer	Mixture	4 x 7.0 mL	Not classified	Not classified	Page 30



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SECTION 1. IDENTIFICATION

1.1 Product Identifier

Product Name:	Other Means of Identification. Lot # Format:
CRYOcheck Chromogenic Factor VIII: Reagent 1	CF08R1-XXX

Product type: Liquid

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use: For use with the other components of CRYOcheck

Chromogenic Factor VIII

CRYOcheck Chromogenic Factor VIII is a medical device

for in vitro diagnostic use

Restrictions on Use: For professional use only

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer Contact Information: Precision BioLogic Inc., 140 Eileen Stubbs Ave Dartmouth,

NS B3B 0A9, Canada

Email: techsupport@precisionbiologic.com

Precision BioLogic Inc. Telephone Number: 1-800-267-2796

1.4 Emergency Telephone Number

USA Poison Control: 1-800-222-1222 Canada Provincial Poison Control Centers: www.capcc.ca

https://echa.europa.eu/support/helpdesks EU National Helpdesks:

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

This product is not hazardous according to Regulations (EC) No 1272/2008 and OSHA 29CFR 1910.1200

Product definition: Mixture

Classification of the mixture: Not classified

This product is classified according to Regulations (EC) No 1272/2008 [CLP/GHS], (US) OSHA Hazard classification of ingredients listed in section 3 in accordance with 29 CFR 1910.1200, and Hazardou's Product Regulation HPR (WHMIS 2015)

2.2 Label Elements:

Signal Word: No signal words

Hazard statement: None

No data available Adverse Human Health Effects and Symptoms:

Pictograms: None

Precautionary Statements: No data available

2.3 Other hazards not otherwise classified:



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Reagent 1 contains bovine factor X. Bovine FX was prepared from bovine plasma from animals free from BSE. However, no known test method can offer complete assurance that components derived from bovine blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixtures:

Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section

Occupational exposure limits, if available, are listed in Section 8

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

If inhaled, move person to fresh air. Get medical attention if adverse Inhalation:

symptoms appear

Remove contaminated clothes and shoes. Wash affected area immediately Skin Contact:

with soap or mild detergent and plenty of water. Get medical attention if

symptoms occur

Rinse immediately with plenty of water. Keep eyelid open with fingers while

rinsing. Check for and remove any contact lenses. Get medical attention if

irritation occurs

Rinse mouth with plenty of water provided person is conscious. Do not Ingestion:

induce vomiting. Get medical attention if symptoms occur

4.2 Most Important Symptoms and Effects, Acute and Delayed

No known significant effects or critical hazards

4.3 Immediate Medical Attention and Special Treatment

Note to physician: Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Eye Contact:

Product is non-flammable, low risk of fire by the inflammability Suitable Extinguishing Media:

> characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent

can be used

Unsuitable Extinguishing Media: Not applicable



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5.2 Specific Hazards Arising from the substance or mixture

Specific hazards arising from the chemical/substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk

under normal conditions of storage, manipulation and use

Hazardous thermal decomposition

products:

Thermal decomposition may generate toxic and hazardous fumes of carbon dioxide, carbon monoxide, and other organic compounds

5.3 Special Protective Equipment and Precautions/Advice for Fire-Fighters

Protective actions: Isolate the scene by removing all persons from the vicinity of the incident if

there is fire. No action shall be taken involving any personal risk or without

suitable training

Depending on the magnitude of the fire it may be necessary to use full Equipment for self-protection:

protective clothing and individual respiratory equipment. Minimum

emergency facilities and equipment should be available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

For non-emergency personnel: Isolate leaks provided that there is no additional risk for the people

performing this task. Do not walk through spilled material. Put on

appropriate personal protective equipment

For emergency responders: Wear appropriate protective equipment (see Section 8). See also the

information in "For non-emergency personnel"

6.2 Environmental Precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water

6.3 Methods for Containment and Cleaning Up

Pre-treat the spill with a disinfectant with full biocidal activity. Soak up with inert absorbent material, and clean with plenty of water. Collect spilled material in appropriate waste disposal container. Dispose of via a licenced waste disposal contractor

6.4 Reference to Other Sections

See Section 1 for emergency contact information

See Section 8 for information on appropriate personal protective equipment

See Section 13 for additional waste treatment information

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

No known test method can offer complete assurance that components derived from bovine blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious.

Protective measures: Put on appropriate personal protective equipment (see Section 8)



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Advice on general occupational hygiene:

Do not eat, drink or smoke in areas where this mixture is handled, stored and processed. Wash hands with soap and water after handling the mixture and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store at temperature indicated on the product label. Keep container tightly closed and sealed until ready for use. Avoid environmental release. Keep away from food and drinks. Store in accordance with local regulations

7.3 Specific End Uses

The product is intended for in vitro diagnostic use. Use the product in accordance with Good Laboratory Practice

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: None

8.2 Exposure Controls: No exposure limit value known.

8.2.1 Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual Protection Measures

Eye/Face Protection:

Skin Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher

degree of protection: safety glasses with side-shields

Handle with chemical-resistant, impervious gloves complying with an approved standard. 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

Respiratory Protection: Respiratory protection is not required

Personal protective equipment (PPE) should be selected based on the task **Body Protection:**

being performed and the risks involved

Appropriate footwear and any additional skin protection measures should Other skin protection:

be selected based on the task being performed and the risks involved

8.2.3 Environmental Exposure Controls

Avoid any release into the environment

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state: Liquid

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9.1 Information on Basic Physical and Chemical Properties

Odor: Odorless

Odor Threshold: No applicable Color: Clear, colorless

pH: Neutral pH

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flash point: Product does not sustain combustion

Evaporation rate: Not available Flammability: Not applicable Upper/lower flammability or explosive limits: Not applicable

Vapor Pressure: Not available

Vapor density: Not applicable

Relative Density: Not applicable

Solubility: Not applicable Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Not applicable Viscosity:

Explosive properties: Not applicable

Not applicable Oxidizing properties:

9.2 Other Information: Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Chemically stable under recommended conditions of storage, handling and use.

10.3 Possibility of Hazardous Reactions

Under the normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid, Including Static Discharge, Shock or Vibration

Not applicable

10.5 Incompatible Materials



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Avoid strong acids, avoid alkalis or strong bases

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity: Not available

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitization:

Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity:

Not available

Summary of evaluation of the CMR properties: Not available

STOT-single exposure: Not available

STOT-repeated exposure: Not available

Aspiration hazard: Not available

Symptoms related to the physical, chemical and

toxicological characteristics:

No specific data

Delayed and immediate effects, and chronic effects

from short-term and long-term exposure:

Not available

Numerical measures of toxicity, including Acute

Toxicity Estimates (ATEs):

Not available

Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by

OSHA:

Not found

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not available

12.2 Persistence and Degradability: Not available

12.3 Bioaccumulative Potential: Not available

12.4 Mobility in Soil: Not available



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12.5 Results of PBT and vPvB Assessment: Not applicable

12.6 Other Adverse Effects:No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods and Special Precautions for Product Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction

Special Precautions

This reagent contains bovine FX was prepared from bovine plasma from animals free from BSE. However, no known test method can offer complete assurance that components derived from bovine blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious

13.2 Disposal Methods for Packaging

The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible

Special Precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

SECTION 14. TRANSPORT INFORMATION

(ADR/RID, ADN, IMDG and ICAO, TDG&DOT Classification, IATA)

14.1 UN Number: Not regulated

14.2 UN Proper Shipping Name: Not applicable

14.3 Transport Hazard Class: Not applicable

14.4 Packing Group: Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Additional Information: Not applicable

14.6 Special Precautions for User

Transport within user premises: Always transport in closed containers that are upright and secure. Ensure

that persons transporting the product know what to do in the event of an

accident or spillage

14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code:

Not applicable



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SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada Regulations and Lists:

NPRI: No components listed

CEPA Toxic substances: No components listed

DSL/NDSL: All components are listed or exempt

US Regulations and Lists:

TSCA: All components are listed or exempt

SARA 302/304 and SARA 311/312

FPA List of Lists

Not applicable, no products were found

Massachusetts No components listed

New Jersey No components listed

Pennsylvania No components listed

California Prop. 65 No components listed

EU Regulations and Lists:

EU Regulation (EC) No.1907/2006 (REACH):

Annex XIV List of substances subject to
 No components listed

authorisation

 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixture and articles

Not applicable

C&L Inventory All components are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

Full text of H-Statements Referred to Under Section 2

Not applicable

Key literature References and Sources for Data

This SDS was prepared on the basis of sheets of individual components and online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation

Procedure Used to Derive the Classification for Mixtures

(EU) Classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Hazard Communication Standard, 29 CFR 1910.1200 (HCS) Hazardous Product Regulation HPR (WHMIS 2015)

Training Advice



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Provide workers with adequate training to assure that the product is handled safely in accordance with national and community legislation

Abbreviations and Acronyms:

WHMIS=Workplace Hazardous Materials Information System

GHS=Globally Harmonized System of Classification and Labelling of Chemicals

OSHA=Occupational Safety and Health Administration

CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

FDA=Food and Drug Administration

STOT=Specific Target Organ Toxicity

PBT=Persistent, Bioaccumulative and Toxic

vPvB= Very Persistent and very Bioaccumulative

ADR=European Agreement concerning the International Carriage of Dangerous Goods by Road

RID=European Agreement Concerning the International Carriage of Dangerous Goods by Rail

ADN=International Carriage of Dangerous Goods by Inland Waterways

IMDG=International Maritime Dangerous Goods

ICAO= International Civil Aviation Organization

TDG=Transportation of Dangerous Goods Act

DOT=Department of Transportation

UN=United Nations

IATA=International Air Transport Association

NPRI=National Pollutant Release Inventory

CEPA=Canadian Environmental Protection Act

DSL=Canada Domestic Substances List

NDSL= Canada Non-Domestic Substances List

TSCA=Toxic Substances Control Act

SARA=Superfund Amendments and Reauthorization Act

DEA Lists=United States Drug Enforcement Administration Lists

EPA=United States Environmental Protection Agency

REACH=Registration, Evaluation, Authorisation and Restriction of Chemicals

ECHA=European Chemical Agency

RTECS=Registry of Toxic Effects of Chemical Substances

BSE=Bovine spongiform encephalopathy

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Preparation Information

Precision BioLogic Inc.

Revision History

Revision: 00 Revision Date: January 6, 2020 Changes: Not applicable

Revision: 01 Revision Date: April 27, 2020 Changes: Updates for clarity



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SECTION 1. IDENTIFICATION

1.4 Product Identifier

Product Name:	Other Means of Identification. Lot # Format:
CRYOcheck Chromogenic Factor VIII: Reagent 2	CF08R2-XXX

Product type: Liquid

1.5 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use: For use with the other components of CRYO*check*

Chromogenic Factor VIII

CRYOcheck Chromogenic Factor VIII is a medical device

for in vitro diagnostic use

Restrictions on Use: For professional use only

1.6 Details of the Supplier of the Safety Data Sheet

Manufacturer Contact Information: Precision BioLogic Inc., 140 Eileen Stubbs Ave Dartmouth,

NS B3B 0A9, Canada

techsupport@precisionbiologic.com Email:

1-800-267-2796 Precision BioLogic Inc. Telephone Number:

1.5 Emergency Telephone Number

USA Poison Control: 1-800-222-1222 Canada Provincial Poison Control Centers: www.capcc.ca

https://echa.europa.eu/support/helpdesks EU National Helpdesks:

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

This product is not hazardous according to Regulations (EC) No 1272/2008 and OSHA 29CFR 1910.1200

Product definition: Mixture

Classification of the mixture: Not classified

This product is classified according to Regulations (EC) No 1272/2008 [CLP/GHS], (US) OSHA Hazard classification of ingredients listed in section 3 in accordance with 29 CFR 1910.1200, and Hazardous Product Regulation HPR (WHMIS 2015)

2.2 Label Elements:

Signal Word: No signal words

Hazard statement: None

Adverse Human Health Effects and Symptoms: No data available

Pictograms: None

No data available **Precautionary Statements:**

2.3 Other hazards not otherwise classified:



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Reagent 2 contains human FIXa and thrombin (FIIa) prepared from human plasma which was found to be negative when tested in accordance with current FDA required tests. However, no known test method can offer complete assurance that components derived from human blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixtures:

Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section

Occupational exposure limits, if available, are listed in Section 8

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

If inhaled, move person to fresh air. Get medical attention if adverse Inhalation:

symptoms appear

Remove contaminated clothes and shoes. Wash affected area immediately Skin Contact:

with soap or mild detergent and plenty of water. Get medical attention if

symptoms occur

Rinse immediately with plenty of water. Keep eyelid open with fingers while

rinsing. Check for and remove any contact lenses. Get medical attention if

irritation occurs

Rinse mouth with plenty of water provided person is conscious. Do not Ingestion:

induce vomiting. Get medical attention if symptoms occur

4.2 Most Important Symptoms and Effects, Acute and Delayed

No known significant effects or critical hazards

4.3 Immediate Medical Attention and Special Treatment

Note to physician: Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Eye Contact:

Product is non-flammable, low risk of fire by the inflammability Suitable Extinguishing Media:

> characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent

can be used

Unsuitable Extinguishing Media: Not applicable



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5.2 Specific Hazards Arising from the substance or mixture

Specific hazards arising from the chemical/substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk

under normal conditions of storage, manipulation and use

Hazardous thermal decomposition

products:

Thermal decomposition may generate toxic and hazardous fumes of carbon dioxide, carbon monoxide, and other organic compounds

5.3 Special Protective Equipment and Precautions/Advice for Fire-Fighters

Protective actions: Isolate the scene by removing all persons from the vicinity of the incident if

there is fire. No action shall be taken involving any personal risk or without

suitable training

Depending on the magnitude of the fire it may be necessary to use full Equipment for self-protection:

protective clothing and individual respiratory equipment. Minimum

emergency facilities and equipment should be available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

For non-emergency personnel: Isolate leaks provided that there is no additional risk for the people

performing this task. Do not walk through spilled material. Put on

appropriate personal protective equipment

For emergency responders: Wear appropriate protective equipment (see Section 8). See also the

information in "For non-emergency personnel"

6.2 Environmental Precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water

6.3 Methods for Containment and Cleaning Up

Pre-treat the spill with a disinfectant with full biocidal activity. Soak up with inert absorbent material, and clean with plenty of water. Collect spilled material in appropriate waste disposal container. Dispose of via a licenced waste disposal contractor

6.4 Reference to Other Sections

See Section 1 for emergency contact information

See Section 8 for information on appropriate personal protective equipment

See Section 13 for additional waste treatment information

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Do not eat, drink or smoke in areas where this mixture is handled, stored

and processed. Wash hands with soap and water after handling the mixture and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures



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7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store at temperature indicated on the product label. Keep container tightly closed and sealed until ready for use. Avoid environmental release. Keep away from food and drinks. Store in accordance with local regulations

7.3 Specific End Uses

The product is intended for in vitro diagnostic use. Use the product in accordance with Good Laboratory Practice

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: None

8.2 Exposure Controls: No exposure limit value known.

8.2.1 Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual Protection Measures

Eye/Face Protection:

Skin Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid

splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher

degree of protection: safety glasses with side-shields

Handle with chemical-resistant, impervious gloves complying with an

approved standard. 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

Respiratory Protection: Respiratory protection is not required

Body Protection: Personal protective equipment (PPE) should be selected based on the task

being performed and the risks involved

Other skin protection:

Appropriate footwear and any additional skin protection measures should be calculated based on the took being performed and the risks involved.

be selected based on the task being performed and the risks involved

8.2.3 Environmental Exposure Controls

Avoid any release into the environment



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state: Liquid

Odor: Odorless

Odor Threshold: No applicable Color: Clear, colorless

pH: Neutral pH

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flash point: Product does not sustain combustion

Evaporation rate: Not available

Flammability: Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapor Pressure: Not available

Vapor density: Not applicable

Relative Density: Not applicable

Solubility: Not applicable

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Viscosity: Not applicable

Explosive properties: Not applicable

Oxidizing properties: Not applicable

9.2 Other Information: Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Chemically stable under recommended conditions of storage, handling and use.

10.3 Possibility of Hazardous Reactions

Under the normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid, Including Static Discharge, Shock or Vibration

Not applicable



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10.5 Incompatible Materials

Avoid strong acids, avoid alkalis or strong bases

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity: Not available

Skin corrosion/irritation: Not available

Serious eye damage/irritation:

Not available

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Summary of evaluation of the CMR properties: Not available

STOT-single exposure: Not available

STOT-repeated exposure: Not available

Aspiration hazard: Not available

Symptoms related to the physical, chemical and

toxicological characteristics:

No specific data

Delayed and immediate effects, and chronic effects

from short-term and long-term exposure:

Not available

Numerical measures of toxicity, including Acute

Toxicity Estimates (ATEs):

OSHA:

Not available

Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by

Not found

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:Not available12.2 Persistence and Degradability:Not available

12.3 Bioaccumulative Potential: Not available



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12.4 Mobility in Soil: Not available

12.5 Results of PBT and vPvB Assessment: Not applicable

12.6 Other Adverse Effects:No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods and Special Precautions for Product Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction

Special Precautions

The product is a human blood-based product and should be handled and discarded as recommended for any potentially infectious human specimen

13.2 Disposal Methods for Packaging

The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible

Special Precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

SECTION 14. TRANSPORT INFORMATION

(ADR/RID, ADN, IMDG and ICAO, TDG&DOT Classification, IATA)

14.1 UN Number: Not regulated

14.2 UN Proper Shipping Name: Not applicable

14.3 Transport Hazard Class: Not applicable

14.4 Packing Group: Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Additional Information: Not applicable

14.6 Special Precautions for User

Transport within user premises: Always transport in closed containers that are upright and secure. Ensure

that persons transporting the product know what to do in the event of an

accident or spillage

14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code:

Not applicable



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SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada Regulations and Lists:

NPRI: No components listed

CEPA Toxic substances: No components listed

DSL/NDSL: All components are listed or exempt

US Regulations and Lists:

TSCA: All components are listed or exempt

SARA 302/304 and SARA 311/312

FPA List of Lists

Not applicable, no products were found

Massachusetts No components listed

New Jersey No components listed

Pennsylvania No components listed

California Prop. 65 No components listed

EU Regulations and Lists:

EU Regulation (EC) No.1907/2006 (REACH):

Annex XIV List of substances subject to
 No components listed

authorisation

Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixture and articles

Not applicable

C&L Inventory All components are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

Full text of H-Statements Referred to Under Section 2

Not applicable

Key literature References and Sources for Data

This SDS was prepared on the basis of sheets of individual components and online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation

Procedure Used to Derive the Classification for Mixtures

(EU) Classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Hazard Communication Standard, 29 CFR 1910.1200 (HCS) Hazardous Product Regulation HPR (WHMIS 2015)

Training Advice



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Provide workers with adequate training to assure that the product is handled safely in accordance with national and community legislation

Abbreviations and Acronyms:

WHMIS=Workplace Hazardous Materials Information System

GHS=Globally Harmonized System of Classification and Labelling of Chemicals

OSHA=Occupational Safety and Health Administration

CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

FDA=Food and Drug Administration

STOT=Specific Target Organ Toxicity

PBT=Persistent, Bioaccumulative and Toxic

vPvB= Very Persistent and very Bioaccumulative

ADR=European Agreement concerning the International Carriage of Dangerous Goods by Road

RID=European Agreement Concerning the International Carriage of Dangerous Goods by Rail

ADN=International Carriage of Dangerous Goods by Inland Waterways

IMDG=International Maritime Dangerous Goods

ICAO= International Civil Aviation Organization

TDG=Transportation of Dangerous Goods Act

DOT=Department of Transportation

UN=United Nations

IATA=International Air Transport Association

NPRI=National Pollutant Release Inventory

CEPA=Canadian Environmental Protection Act

DSL=Canada Domestic Substances List

NDSL= Canada Non-Domestic Substances List

TSCA=Toxic Substances Control Act

SARA=Superfund Amendments and Reauthorization Act

DEA Lists=United States Drug Enforcement Administration Lists

EPA=United States Environmental Protection Agency

REACH=Registration, Evaluation, Authorisation and Restriction of Chemicals

ECHA=European Chemical Agency

RTECS=Registry of Toxic Effects of Chemical Substances

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Preparation Information

Precision BioLogic Inc.

Revision History

Revision: 00 Revision Date: January 6, 2020 Changes: Not applicable

Revision: 01 Revision Date: April 27, 2020 Changes: Updates for clarity



Doc. ID: SDS-010 EN Revision: 01

Revision Date: April 27, 2020

SECTION 1. IDENTIFICATION

1.7 Product Identifier

Product Name:	Other Means of Identification. Lot # Format:
CRYOcheck Chromogenic Factor VIII: Reagent 3	CF08R3-XXX

Product type: Liquid

1.8 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use: For use with the other components of CRYO*check*

Chromogenic Factor VIII

CRYOcheck Chromogenic Factor VIII is a medical device

for in vitro diagnostic use

Restrictions on Use: For professional use only

1.9 Details of the Supplier of the Safety Data Sheet

Manufacturer Contact Information: Precision BioLogic Inc., 140 Eileen Stubbs Ave Dartmouth,

NS B3B 0A9, Canada

techsupport@precisionbiologic.com Email:

1-800-267-2796 Precision BioLogic Inc. Telephone Number:

1.6 Emergency Telephone Number

USA Poison Control: 1-800-222-1222 Canada Provincial Poison Control Centers: www.capcc.ca

https://echa.europa.eu/support/helpdesks EU National Helpdesks:

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

This product is not hazardous according to Regulations (EC) No 1272/2008 and OSHA 29CFR 1910.1200

Product definition: Mixture

Classification of the mixture: Not classified

This product is classified according to Regulations (EC) No 1272/2008 [CLP/GHS], (US) OSHA Hazard classification of ingredients listed in section 3 in accordance with 29 CFR 1910.1200, and Hazardous Product Regulation HPR (WHMIS 2015)

2.2 Label Elements:

Signal Word: No signal words

Hazard statement: None

Adverse Human Health Effects and Symptoms: No data available

Pictograms: None

No data available Precautionary Statements:



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2.3 Other hazards not otherwise classified:

Toxic p-nitroaniline is released during the assay, however, the maximum concentration in the reaction mixture does not exceed 0.01%

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixtures:

The hazards listed in the table below are for components in pure form. These hazards are reduced or eliminated when mixed or diluted.

Component	Classification	Concentration in Reagent 3
Magnesium EDTA (Ethylenediaminetetraacetic acid dipotassium magnesium salt) CAS # 15708-48-2 EC # 239-803-8	Skin Irrit 2, Eye Irrit 2, STOT SE 3 <i>resp</i> ; H315, H319, H335	< 2%

For the full text of the H-Statements and other abbreviations mentioned in this Section, see Section 16

Occupational exposure limits, if available, are listed in Section 8

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

If inhaled, move person to fresh air. Get medical attention if adverse Inhalation:

symptoms appear

Remove contaminated clothes and shoes. Wash affected area immediately Skin Contact:

with soap or mild detergent and plenty of water. Get medical attention if

symptoms occur

Rinse immediately with plenty of water. Keep eyelid open with fingers while Eye Contact:

rinsing. Check for and remove any contact lenses. Get medical attention if

irritation occurs

Rinse mouth with plenty of water provided person is conscious. Do not Ingestion:

induce vomiting. Get medical attention if symptoms occur

4.2 Most Important Symptoms and Effects, Acute and Delayed

No known significant effects or critical hazards

4.3 Immediate Medical Attention and Special Treatment

Note to physician: Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media



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Suitable Extinguishing Media: Product is non-flammable, low risk of fire by the inflammability

> characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent

can be used

Unsuitable Extinguishing Media: Not applicable

5.2 Specific Hazards Arising from the substance or mixture

Specific hazards arising from the chemical/substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk

under normal conditions of storage, manipulation and use

Hazardous thermal decomposition products:

Thermal decomposition may generate toxic and hazardous fumes of carbon dioxide, carbon monoxide, and other organic compounds

5.3 Special Protective Equipment and Precautions/Advice for Fire-Fighters

Protective actions: Isolate the scene by removing all persons from the vicinity of the incident if

there is fire. No action shall be taken involving any personal risk or without

suitable training

Depending on the magnitude of the fire it may be necessary to use full Equipment for self-protection:

protective clothing and individual respiratory equipment. Minimum

emergency facilities and equipment should be available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Isolate leaks provided that there is no additional risk for the people For non-emergency personnel:

performing this task. Do not walk through spilled material. Put on

appropriate personal protective equipment

For emergency responders: Wear appropriate protective equipment (see Section 8). See also the

information in "For non-emergency personnel"

6.2 Environmental Precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water

6.3 Methods for Containment and Cleaning Up

Pre-treat the spill with a disinfectant with full biocidal activity. Soak up with inert absorbent material, and clean with plenty of water. Collect spilled material in appropriate waste disposal container. Dispose of via a licenced waste disposal contractor

6.4 Reference to Other Sections

See Section 1 for emergency contact information

See Section 8 for information on appropriate personal protective equipment

See Section 13 for additional waste treatment information

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling



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Protective measures: Put on appropriate personal protective equipment (see Section 8)

Do not eat, drink or smoke in areas where this mixture is handled, stored Advice on general occupational hygiene:

> and processed. Wash hands with soap and water after handling the mixture and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store at temperature indicated on the product label. Keep container tightly closed and sealed until ready for use. Avoid environmental release. Keep away from food and drinks. Store in accordance with local regulations

7.3 Specific End Uses

The product is intended for in vitro diagnostic use. Use the product in accordance with Good Laboratory Practice

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

National Limit Values:

United Kingdom (EH40/2005) Dust, Inhalable

Time-weighted-average exposure limit (TWA) 10 mg/m³

United Kingdom (EH40/2005) Dust, Respirable

Time-weighted-average exposure limit (TWA) 4 mg/m³

DNEL No data available

No data available **PNEC**

8.2 Exposure Controls: No exposure limit value known.

8.2.1 Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual Protection Measures

Eye/Face Protection:

Skin Protection:

Safety eyewear complying with an approved standard should be used when

a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher

degree of protection: safety glasses with side-shields

Handle with chemical-resistant, impervious gloves complying with an

approved standard. 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

Respiratory Protection: Respiratory protection is not required

Body Protection: Personal protective equipment (PPE) should be selected based on the task



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being performed and the risks involved

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved

Slightly acidic pH

8.2.3 Environmental Exposure Controls

Avoid any release into the environment

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state: Liquid
Odor: Odorless
Odor Threshold: No applicable
Color: Clear, colorless

Melting point/freezing point:

Not available

Initial boiling point and boiling range:

Not available

Flash point: Product does not sustain combustion

Evaporation rate: Not available Not applicable Flammability: Upper/lower flammability or explosive limits: Not applicable Vapor Pressure: Not available Vapor density: Not applicable Relative Density: Not applicable Solubility: Not applicable Partition coefficient: n-octanol/water: Not applicable Auto-ignition temperature: Not applicable Decomposition temperature: Not applicable Viscosity: Not applicable

Explosive properties:

Not applicable

Oxidizing properties:

Not applicable

Oxidizing proporties.

9.2 Other Information: Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

pH:



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No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Chemically stable under recommended conditions of storage, handling and use.

10.3 Possibility of Hazardous Reactions

Under the normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid, Including Static Discharge, Shock or Vibration

Not applicable

10.5 Incompatible Materials

Avoid strong acids, avoid alkalis or strong bases

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced



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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity: Reagent 3 is not classified as acute toxic

Skin corrosion/irritation: Can cause skin irritation after repeated or prolonged contact

Serious eye damage/irritation: The product is not classified as irritant to the eyes

Hypersensitive reactions can not be ruled out for individuals Respiratory or skin sensitization:

who are overly sensitive

No mutagenic effects have been reported for the substances Germ cell mutagenicity:

in this mixture

No carcinogenic effects have been reported for the Carcinogenicity:

substances in this mixture

No toxic effects have been reported for the substances in Reproductive toxicity:

this mixture

Not available Summary of evaluation of the CMR properties:

STOT-single exposure: Not available

STOT-repeated exposure: Not available

Aspiration hazard: Not available

Symptoms related to the physical, chemical and

toxicological characteristics:

No specific data

Delayed and immediate effects, and chronic effects

from short-term and long-term exposure:

Not available

Numerical measures of toxicity, including Acute

Toxicity Estimates (ATEs):

Not available

Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by

OSHA:

Not found

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not available

12.2 Persistence and Degradability: Not available

12.3 Bioaccumulative Potential: Not available

12.4 Mobility in Soil: Not available

12.5 Results of PBT and vPvB Assessment: Not applicable



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12.6 Other Adverse Effects:

No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods and Special Precautions for Product Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction

Special Precautions

The product is a human blood-based product and should be handled and discarded as recommended for any potentially infectious human specimen

13.2 Disposal Methods for Packaging

The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible

Special Precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

SECTION 14. TRANSPORT INFORMATION

(ADR/RID, ADN, IMDG and ICAO, TDG&DOT Classification, IATA)

14.1 UN Number: Not regulated

14.2 UN Proper Shipping Name: Not applicable

14.3 Transport Hazard Class: Not applicable

14.4 Packing Group: Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Additional Information: Not applicable

14.6 Special Precautions for User

Transport within user premises: Always transport in closed containers that are upright and secure. Ensure

that persons transporting the product know what to do in the event of an

accident or spillage

14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code:

Not applicable



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SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada Regulations and Lists:

NPRI: No components listed

CEPA Toxic substances: No components listed

DSL/NDSL: All components are listed or exempt

US Regulations and Lists:

TSCA: All components are listed or exempt

SARA 302/304 and SARA 311/312

FPA List of Lists

Not applicable, no products were found

Massachusetts No components listed

New Jersey No components listed

Pennsylvania No components listed

California Prop. 65 No components listed

EU Regulations and Lists:

EU Regulation (EC) No.1907/2006 (REACH):

Annex XIV List of substances subject to
 No components listed

authorisation

Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixture and articles

Not applicable

C&L Inventory All components are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

Full text of H-Statements and Abbreviations Referred to Under Section 3

H315: Causes skin irritation.

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Skin Irrit 2: Skin Irritant (Category 2)

Eye Irrit 2: Irritates eyes (Category 2)

STOT SE 3resp: Specific target organ toxicity – single exposure; May cause respiratory irritation (Category 3 resp).

Key literature References and Sources for Data

This SDS was prepared on the basis of sheets of individual components and online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation

Procedure Used to Derive the Classification for Mixtures



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Revision: 01

Revision Date: April 27, 2020

(EU) Classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Hazard Communication Standard, 29 CFR 1910.1200 (HCS) Hazardous Product Regulation HPR (WHMIS 2015)

Training Advice

Provide workers with adequate training to assure that the product is handled safely in accordance with national and community legislation

Abbreviations and Acronyms:

WHMIS=Workplace Hazardous Materials Information System

GHS=Globally Harmonized System of Classification and Labelling of Chemicals

OSHA=Occupational Safety and Health Administration

CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

FDA=Food and Drug Administration

STOT=Specific Target Organ Toxicity

PBT=Persistent, Bioaccumulative and Toxic

vPvB= Very Persistent and very Bioaccumulative

ADR=European Agreement concerning the International Carriage of Dangerous Goods by Road

RID=European Agreement Concerning the International Carriage of Dangerous Goods by Rail

ADN=International Carriage of Dangerous Goods by Inland Waterways

IMDG=International Maritime Dangerous Goods

ICAO= International Civil Aviation Organization

TDG=Transportation of Dangerous Goods Act

DOT=Department of Transportation

UN=United Nations

IATA=International Air Transport Association

NPRI=National Pollutant Release Inventory

CEPA=Canadian Environmental Protection Act

DSL=Canada Domestic Substances List

NDSL= Canada Non-Domestic Substances List

TSCA=Toxic Substances Control Act

SARA=Superfund Amendments and Reauthorization Act

DEA Lists=United States Drug Enforcement Administration Lists

EPA=United States Environmental Protection Agency

REACH=Registration, Evaluation, Authorisation and Restriction of Chemicals

ECHA=European Chemical Agency

RTECS=Registry of Toxic Effects of Chemical Substances

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Preparation Information

Precision BioLogic Inc.

Revision History

Revision: 00 Revision Date: January 6, 2020 Changes: Not applicable

Revision: 01 Revision Date: April 27, 2020 Changes: Not applicable



Revision: 01

Revision Date: April 27, 2020

SECTION 1. IDENTIFICATION

1.10Product Identifier

Product Name:	Other Means of Identification. Lot # Format:
CRYOcheck Chromogenic Factor VIII: Diluent Buffer	CF08D-XXX

Product type: Liquid

1.11Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use: For use with the other components of CRYOcheck

Chromogenic Factor VIII

CRYOcheck Chromogenic Factor VIII is a medical device

for in vitro diagnostic use

Restrictions on Use: For professional use only

1.12Details of the Supplier of the Safety Data Sheet

Manufacturer Contact Information: Precision BioLogic Inc., 140 Eileen Stubbs Ave Dartmouth,

NS B3B 0A9, Canada

Email: techsupport@precisionbiologic.com

Precision BioLogic Inc. Telephone Number: 1-800-267-2796

1.7 Emergency Telephone Number

USA Poison Control: 1-800-222-1222 Canada Provincial Poison Control Centers: www.capcc.ca

https://echa.europa.eu/support/helpdesks EU National Helpdesks:

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

This product is not hazardous according to Regulations (EC) No 1272/2008 and OSHA 29CFR 1910.1200

Product definition: Mixture

Classification of the mixture: Not classified

This product is classified according to Regulations (EC) No 1272/2008 [CLP/GHS], (US) OSHA Hazard classification of ingredients listed in section 3 in accordance with 29 CFR 1910.1200, and Hazardou's Product Regulation HPR (WHMIS 2015)

2.2 Label Elements:

Signal Word: No signal words

Hazard statement: None

No data available Adverse Human Health Effects and Symptoms:

Pictograms: None

Precautionary Statements: No data available

2.3 Other hazards not otherwise classified:



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Diluent Buffer contains bovine serum albumin (BSA). All BSA is from donor animals that are free from BSE and TSE. Donor animals have been subjected to examination by a veterinarian before and after donation, determining that the animals are free from infectious materials. However, no known test method can offer complete assurance that components derived from bovine blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance/Mixtures:

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section

Occupational exposure limits, if available, are listed in Section 8

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

If inhaled, move person to fresh air. Get medical attention if adverse Inhalation:

symptoms appear

Remove contaminated clothes and shoes. Wash affected area immediately Skin Contact:

with soap or mild detergent and plenty of water. Get medical attention if

symptoms occur

Rinse immediately with plenty of water. Keep eyelid open with fingers while Eye Contact:

rinsing. Check for and remove any contact lenses. Get medical attention if

irritation occurs

Rinse mouth with plenty of water provided person is conscious. Do not Ingestion:

induce vomiting. Get medical attention if symptoms occur

4.2 Most Important Symptoms and Effects, Acute and Delayed

No known significant effects or critical hazards

4.3 Immediate Medical Attention and Special Treatment

Note to physician: Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Product is non-flammable, low risk of fire by the inflammability

characteristics of the product in normal conditions of storage, manipulation and use. In the case of the existence of sustained combustion as a result of improper manipulation, storage or use any type of extinguishing agent

can be used

Unsuitable Extinguishing Media: Not applicable



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5.2 Specific Hazards Arising from the substance or mixture

Specific hazards arising from the chemical/substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk

under normal conditions of storage, manipulation and use

Hazardous thermal decomposition

products:

Thermal decomposition may generate toxic and hazardous fumes of carbon dioxide, carbon monoxide, and other organic compounds

5.3 Special Protective Equipment and Precautions/Advice for Fire-Fighters

Protective actions: Isolate the scene by removing all persons from the vicinity of the incident if

there is fire. No action shall be taken involving any personal risk or without

suitable training

Equipment for self-protection: Depending on the magnitude of the fire it may be necessary to use full

protective clothing and individual respiratory equipment. Minimum

emergency facilities and equipment should be available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

For non-emergency personnel: Isolate leaks provided that there is no additional risk for the people

performing this task. Do not walk through spilled material. Put on

appropriate personal protective equipment

For emergency responders: Wear appropriate protective equipment (see Section 8). See also the

information in "For non-emergency personnel"

6.2 Environmental Precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water

6.3 Methods for Containment and Cleaning Up

Pre-treat the spill with a disinfectant with full biocidal activity. Soak up with inert absorbent material, and clean with plenty of water. Collect spilled material in appropriate waste disposal container. Dispose of via a licenced waste disposal contractor

6.4 Reference to Other Sections

See Section 1 for emergency contact information

See Section 8 for information on appropriate personal protective equipment

See Section 13 for additional waste treatment information

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Do not eat, drink or smoke in areas where this mixture is handled, stored

and processed. Wash hands with soap and water after handling the mixture and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas.

See Section 8 for additional information on hygiene measures



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7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store at temperature indicated on the product label. Keep container tightly closed and sealed until ready for use. Avoid environmental release. Keep away from food and drinks. Store in accordance with local regulations

7.3 Specific End Uses

The product is intended for in vitro diagnostic use. Use the product in accordance with Good Laboratory Practice

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: None

8.2 Exposure Controls: No exposure limit value known.

8.2.1 Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual Protection Measures

Eye/Face Protection:

Skin Protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher

degree of protection: safety glasses with side-shields

Handle with chemical-resistant, impervious gloves complying with an approved standard. 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

Respiratory Protection: Respiratory protection is not required

Body Protection: Personal protective equipment (PPE) should be selected based on the task

being performed and the risks involved

Other skin protection:

Appropriate footwear and any additional skin protection measures should be calculated based on the took being performed and the risks involved.

be selected based on the task being performed and the risks involved

8.2.3 Environmental Exposure Controls

Avoid any release into the environment



pH:

Neutral pH

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical state: Liquid

Odor: Odorless

Odor Threshold: No applicable

Color: Clear, colorless

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flash point: Product does not sustain combustion

Evaporation rate: Not available

Flammability: Not applicable

Upper/lower flammability or explosive limits: Not applicable

Vapor Pressure: Not available

Vapor density: Not applicable

Relative Density: Not applicable

Solubility: Not applicable

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Viscosity: Not applicable

Explosive properties: Not applicable

Oxidizing properties: Not applicable

9.2 Other Information: Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical Stability

Chemically stable under recommended conditions of storage, handling and use.

10.3 Possibility of Hazardous Reactions

Under the normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid, Including Static Discharge, Shock or Vibration

Not applicable



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10.5 Incompatible Materials

Avoid strong acids, avoid alkalis or strong bases

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Not available Acute toxicity: Sodium Azide Not available Skin corrosion/irritation: Not available Not available Serious eye damage/irritation: Respiratory or skin sensitization: Not available Germ cell mutagenicity: Not available Carcinogenicity: Not available Reproductive toxicity: Not available Summary of evaluation of the CMR properties: Not available Not available STOT-single exposure: STOT-repeated exposure: Not available Aspiration hazard: Not available Symptoms related to the physical, chemical and No specific data toxicological characteristics:

Delayed and immediate effects, and chronic effects from short-term and long-term exposure:

Numerical measures of toxicity, including Acute

Toxicity Estimates (ATEs):

Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA:

Not available

Not available

Not found



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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not available

12.2 Persistence and Degradability: Not available

12.3 Bioaccumulative Potential: Not available

12.4 Mobility in Soil: Not available

12.5 Results of PBT and vPvB Assessment: Not applicable

12.6 Other Adverse Effects: No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods and Special Precautions for Product Disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction

Special Precautions

Diluent Buffer contains bovine serum albumin (BSA). All BSA is from donor animals that are free from BSE and TSE. Donor animals have been subjected to examination by a veterinarian before and after donation, determining that the animals are free from infectious materials. However, no known test method can offer complete assurance that components derived from bovine blood will not transmit infectious agents, therefore, the handling and disposal of reagent should be made with the required caution as being potentially infectious.

13.2 Disposal Methods for Packaging

The generation of waste should be avoided or minimized wherever possible. Incineration or landfill should only be considered when recycling is not feasible

Special Precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

SECTION 14. TRANSPORT INFORMATION

(ADR/RID, ADN, IMDG and ICAO, TDG&DOT Classification, IATA)

14.1 UN Number: Not regulated

14.2 UN Proper Shipping Name: Not applicable

14.3 Transport Hazard Class: Not applicable

14.4 Packing Group: Not applicable

14.5 Environmental Hazards: Not applicable

14.6 Additional Information: Not applicable

14.6 Special Precautions for User



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Transport within user premises: Always transport in closed containers that are upright and secure. Ensure

that persons transporting the product know what to do in the event of an

accident or spillage

14.7 Transport in Bulk According to Annex II of MARPOL and the IBC Code:

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada Regulations and Lists:

NPRI: No components listed

CEPA Toxic substances: No components listed

DSL/NDSL: All components are listed or exempt

US Regulations and Lists:

TSCA: All components are listed or exempt

SARA 302/304 and SARA 311/312

EPA List of Lists

Not applicable, no products were found

Massachusetts No components listed

New Jersey No components listed

Pennsylvania No components listed

California Prop. 65 No components listed

EU Regulations and Lists:

EU Regulation (EC) No.1907/2006 (REACH):

• Annex XIV List of substances subject to

authorisation

No components listed

 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixture and articles

Not applicable

C&L Inventory All components are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier

SECTION 16. OTHER INFORMATION

Full text of H-Statements and Abbreviations Referred to Under Section 3

Not applicable

Key literature References and Sources for Data



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This SDS was prepared on the basis of sheets of individual components and online databases (e.g. ECHA, RTECS) as well as our knowledge and experience, taking into account current legislation

Procedure Used to Derive the Classification for Mixtures

(EU) Classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Hazard Communication Standard, 29 CFR 1910.1200 (HCS) Hazardous Product Regulation HPR (WHMIS 2015)

Training Advice

Provide workers with adequate training to assure that the product is handled safely in accordance with national and community legislation

Abbreviations and Acronyms:

WHMIS=Workplace Hazardous Materials Information System

GHS=Globally Harmonized System of Classification and Labelling of Chemicals

OSHA=Occupational Safety and Health Administration

CLP= Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

FDA=Food and Drug Administration

STOT=Specific Target Organ Toxicity

PBT=Persistent, Bioaccumulative and Toxic

vPvB= Very Persistent and very Bioaccumulative

ADR=European Agreement concerning the International Carriage of Dangerous Goods by Road

RID=European Agreement Concerning the International Carriage of Dangerous Goods by Rail

ADN=International Carriage of Dangerous Goods by Inland Waterways

IMDG=International Maritime Dangerous Goods

ICAO= International Civil Aviation Organization

TDG=Transportation of Dangerous Goods Act

DOT=Department of Transportation

UN=United Nations

IATA=International Air Transport Association

NPRI=National Pollutant Release Inventory

CEPA=Canadian Environmental Protection Act

DSL=Canada Domestic Substances List

NDSL= Canada Non-Domestic Substances List

TSCA=Toxic Substances Control Act

SARA=Superfund Amendments and Reauthorization Act

DEA Lists=United States Drug Enforcement Administration Lists

EPA=United States Environmental Protection Agency

REACH=Registration, Evaluation, Authorisation and Restriction of Chemicals

ECHA=European Chemical Agency

RTECS=Registry of Toxic Effects of Chemical Substances

BSE=Bovine spongiform encephalopathy

TSE=Transmissible spongiform encephalopathy

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Preparation Information

Precision BioLogic Inc.

Revision History



Doc. ID: SDS-010 EN

Revision: 01

Revision Date: April 27, 2020

Revision: 00 Revision Date: January 6, 2020 Changes: Not applicable

Revision: 01 Revision Date: April 27, 2020 Changes: Updates for clarity, Lot number format of Diluent Buffer

updated