

Safety Datasheet (SDS)

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifiers

Product Catalog #: CF2010

Product Name: Human Factor Xa (Activated Factor 10) Chromogenic Activity Assay Kit

1.2 Relevant Identified Uses

Recommended Use: Intended for the in vitro determination of samples for **Research Use Only**. This product is not

intended for use in diagnostic procedures.

1.3 Details of Supplier of this SDS

Supplier Information: Assaypro LLC Phone: +1-636-447-9175

3400 Harry S Truman Blvd Phone: +1-636-447-9875 St. Charles, MO 63301, USA Fax: +1-636-395-7419

Email: support@assaypro.com

Emergency Phone Number: +1-636-447-9175

2. Hazard Identification

2.1 Classification of Substance/Mixture

EIA Diluent Concentrate contains ProClin™ 300 (0.04%)* in a proprietary buffer

*Not considered hazardous in this concentration. This classification was made according to latest edition of the Globally Harmonized System of Classification and Labeling Chemicals

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

Not considered hazardous at this concentration.

Classification in accordance with Regulation EC No. 1272/2008 [CLP/GHS]

Not considered hazardous at this concentration.

Classification in accordance with Regulation EC No. 67/548/EEC

Not considered hazardous at this concentration.

2.2 Label Elements

Hazard Pictograms: N/A

Signal Word: N/A

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Hazard Statement: N/A

Precautionary Statements: N/A

R-Phrases/S-Phrases: N/A

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. Information on Ingredients

Description:

EIA Diluent Concentrate: Aqueous, proprietary buffer solution that contains 0.04% ProClin™ 300

3.1 Substance

Not applicable

3.2 Mixture

| Contains | CAS No. | EC-No. | Index-No. | Concentration |
|-------------------------------------|------------|--------|--------------|---------------|
| Proprietary Buffer | N/A | N/A | N/A | 99.96% |
| ProClin™ 300 [Mixture of 5-Cloro-2- | 55965-84-9 | - | 613-167-00-5 | 0.04% * |
| Methyl-4-Isothiazolin-3- One | | | | |
| (26172-55-4) and - Methyl-4- | | | | |
| Isothiazolin-3- One (2682-20-4)] | | | | |

^{*} Not hazardous at this concentration.

4. First Aid Measures

4.1 Description of First Aid Measures

General Information: Consult physician. Show this SDS to the doctor in attendance.

After Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

After Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

After Swallowing: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important Symptoms & Effects

The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of Any Immediate Medical Attention/Special Treatment Needed

No data available.

5. Fire Fighting Measures

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Special Hazards Arising from Substance of Mixture

Carbon oxides, nitrogen oxides (NOx), sulphur oxides, hydrogen chloride gas.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus if necessary.

6. Accidental Release Measures

6.1 Personal Safety Precautions

Use appropriate personal protective equipment to prevent contamination of skin, eyes, and personal clothing. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and Materials for Containment/Cleanup

Soak up spilled liquid with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

6.4 Reference to other sections

For disposal see Section 13.

7. Handling and Storage

7.1 Precautions for Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see Section 2.2.

7.2 Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. See product labeling for specific storage temperature requirements.

7.3 Specific End Use

Use as a laboratory reagent, for scientific research and development.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Appropriate Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

the end of workday.

General Information: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or

handling.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering

controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

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respirators and components tested and approved under appropriate government standards such as NIOSH

(US) or CEN (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and

approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

9. Physical and Chemical Properties

| Physical State | Liquid | Color | Colorless to cloudy |
|--------------------|------------------|---------------------------|---------------------|
| Odor | Not available | Odor Threshold | Not available |
| рН | Not available | Melting/Freezing Point | Not available |
| Boiling Point | Not available | Boiling Range | Not available |
| Flash Point | Not available | Evaporation Rate | Not available |
| Flammability | Not available | Upper/Lower Flammability | Not available |
| Explosive Limits | Not available | Vapor Pressure | Not available |
| Vapor Density | Not available | Relative Density | Not available |
| Solubility | Soluble in water | Partition Coefficient | Not available |
| Auto-Ignition Temp | Not available | Decomposition Temperature | Not available |
| Viscosity | Not available | | |

10. Stability and Reactivity

10.1 Reactivity

No relevant information available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No relevant information available.

10.4 Conditions to Avoid

No relevant information available.

10.5 Incompatible Materials

Strong oxidizing agents, reducing agents, amines, mercaptans.

10.6 Hazardous Decomposition Products

Other decomposition products – no data available. In the event of a fire, see Section 5.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity:

LD50 Oral – rat: 53 mg/kg

Inhalation: No data available.

LD50 Dermal - rabbit: No data available.

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Skin corrosion/irritation:

Skin - rabbit Result: Corrosive

Serious eye damage/eye irritation:

Eyes - rabbit

Result: Corrosive to eyes

Respiratory or skin sensitization:

Germ cell mutagenicity.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

DSHA.

Reproductive toxicity:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Additional Information:

RTECS: Not available.

12. Ecological Information

12.1 Ecotoxicity

Full environmental impact has not been fully investigated.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Pure ingredient is very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional

waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent

and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. Transport Information

| | Land Transport (ADR/DOT) | Inland Waterway Transport (ADN) | Sea Transport (IMDG) | Air Transport (IATA) |
|-----------------------------------|-----------------------------|---------------------------------|-------------------------|-------------------------|
| 14.1 UN Number | N/A | N/A | N/A | N/A |
| 14.2 UN Proper Shipping Name | N/A | N/A | N/A | N/A |
| 14.3 Transport Hazard Classes | N/A | N/A | N/A | N/A |
| 14.4 Packing Group | N/A | N/A | N/A | N/A |
| 14.5 Environmental Hazards | N/A | N/A | N/A | N/A |
| 14.6 Special Precautions for User | No | N/A | No | No |

^{*}Product is not considered dangerous for transport according to the above specifications.

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture: Ensure all national/local regulations are observed. REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorization - Annex XIV: The components of this product are not subject to authorization.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Modified alkyl carboxylate - Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl- 2H - isothiazol-3-one (3:1); CAS-No. 55965-84-9

New Jersey Right To Know Components: Modified alkyl carboxylate - Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl- 2H - isothiazol-3-one (3:1); CAS-No. 55965-84-9

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

16. Other Information

Indication of Changes

This SDS has been revised on <u>June 1, 2015</u> to reflect current requirements after the adoption of Globally Harmonized Standards and according to Regulation (EC) No 1272/2008 and Regulation (EC) No 1907/2006.

2. Hazard Identification

2.1 Classification of Substance/Mixture

Wash Buffer Concentrate contains Sodium Azide (0.02 %)*

*Not considered hazardous in this concentration. This classification was made according to latest edition of the Globally Harmonized System of Classification and Labeling Chemicals

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

Not considered hazardous at this concentration.

Classification in accordance with Regulation EC No. 1272/2008 [CLP/GHS]

Not considered hazardous at this concentration.

Classification in accordance with Regulation EC No. 67/548/EEC

Not considered hazardous at this concentration.

2.2 Label Elements

Hazard Pictograms: N/A

Signal Word: N/A

Hazard Statement: N/A

Precautionary Statements: N/A

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

N/A

3. Information on Ingredients

Description:

Wash Buffer Concentrate: Aqueous, proprietary solution that contains 0.02% Sodium Azide

3.1 Substance

Not applicable

3.2 Mixture

| Contains | CAS No. | EC-No. | Index-No. | Concentration |
|----------------------------------|------------|-----------|--------------|---------------|
| Proprietary Solution | N/A | N/A | N/A | 99.98 % |
| Sodium Azide (NaN ₃) | 26628-22-8 | 247-852-1 | 011-004-00-7 | 0.02 % * |

^{*} Not hazardous at this concentration.

4. First Aid Measures

4.1 Description of First Aid Measures

General Information: Consult a physician if you feel unwell. Show SDS when necessary.

After Inhalation: Remove to fresh air, seek medical advice.

After Skin Contact: Wash off with plenty of soap and water. Remove contaminated clothing. Seek medical attention immediately.

After Eye Contact: Rinse with water for several minutes. Seek medical attention immediately.

After Swallowing: DO NOT induce vomiting. Rinse mouth. Consult physician.

4.2 Most Important Symptoms & Effects

The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of Any Immediate Medical Attention/Special Treatment Needed

No data available.

5. Fire Fighting Measures

5.1 Extinguishing Media

Use dry powder.

5.2 Special Hazards Arising from Substance of Mixture

Dangerous decomposition is not anticipated.

5.3 Advice for Firefighters

Wear self-contained breathing apparatus if necessary.

6. Accidental Release Measures

6.1 Personal Safety Precautions

Use appropriate personal protective equipment to prevent contamination of skin, eyes, and personal clothing.

6.2 Environmental Precautions

Keep away from drains. Discharge into the environment should be avoided.

6.3 Methods and Materials for Containment/Cleanup

Soak up spilled liquid with inert absorbent material and dispose of as hazardous waste. Keep in suitable closed containers for disposal.

7. Handling and Storage

7.1 Precautions for Handling

Avoid contact with skin and eyes.

7.2 Conditions for Safe Storage (Including Incompatibilities)

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. See product labeling for specific storage temperature requirements.

7.3 Specific End Use

Use as a laboratory reagent, for scientific research and development.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

| Chemical Identity | Туре | Exposure Limit Values | Source |
|--------------------|---------|----------------------------|---|
| Sodium Azide | Ceiling | 0.100000 nnm | US. NIOSH Recommended |
| CAS No. 26628-22-8 | Celling | 0.100000 ppm | Exposure Limits |
| | | | US. NIOSH Recommended |
| | Ceiling | 0.300000 mg/m ³ | Exposure Limits – Potential for |
| | | | Dermal Absorption |
| | Ceiling | 0.110000 nnm | US. ACGIH Threshold Limit Values |
| | | 0.110000 ppm | Potential for Dermal Absorption |

8.2 Exposure Controls

Appropriate Engineering Controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling

product.

General Information: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or

handling.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH

(US) or CEN (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after

use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as

NIOSH (US) or EN 166(EU).

9. Physical and Chemical Properties

| Physical State | Liquid | Color | Colorless to cloudy |
|--------------------|------------------|---------------------------|---------------------|
| Odor | Not available | Odor Threshold | Not available |
| рН | Not available | Melting/Freezing Point | Not available |
| Boiling Point | Not available | Boiling Range | Not available |
| Flash Point | Not available | Evaporation Rate | Not available |
| Flammability | Not available | Upper/Lower Flammability | Not available |
| Explosive Limits | Not available | Vapor Pressure | Not available |
| Vapor Density | Not available | Relative Density | Not available |
| Solubility | Soluble in water | Partition Coefficient | Not available |
| Auto-Ignition Temp | Not available | Decomposition Temperature | Not available |
| Viscosity | Not available | | |

10. Stability and Reactivity

10.1 Reactivity

No relevant information available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No relevant information available.

10.4 Conditions to Avoid

An explosion occurred when a mixture of sodium azide, methylene chloride, dimethyl sulfoxide, and sulfuric acid were being concentrated on a rotary evaporator.

10.5 Incompatible Materials

Halogenated hydrocarbon, metals, acids, acid chlorides, hydrazine, dimethyl sulfate, inorganic acid chlorides.

10.6 Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions—sodium oxides.

Other decomposition products - no data available.

In the event of a fire, see Section 5.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute toxicity:

LD50 Oral - rat: 72 mg/kg

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation

May be harmful if absorbed through the skin; may cause skin irritation.

Serious eye damage/eye irritation:

May cause eye irritation.

Respiratory or skin sensitization:

No sensitizing effects known.

Carcinogenicity:

No effect known.

Reproductive toxicity:

No toxic effect known.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

May be harmful if inhaled; may cause respiratory tract irritation.

Additional Information:

RTECS not available.

12. Ecological Information

12.1 Ecotoxicity

Toxicity to fish: Mortality LC50 - Pimephales promelas (fathead minnow) - 5.46 mg/L - 96 h (OECD Test Guideline 203)

Toxicity to algae: Static test EC50 - Pseudokirchneriella subcapitata - 0.35 mg/L - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Sodium azide is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

13.1 Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional

waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent

and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Special precautions: Avoid dispersal of spilt material to soil, waterways, drains, and sewers.

14. Transport Information

| | Land Transport (ADR/DOT) | Inland Waterway Transport (ADN) | Sea Transport (IMDG) | Air Transport (IATA) |
|-----------------------------------|-----------------------------|---------------------------------------|-------------------------|-------------------------|
| 14.1 UN Number | N/A | N/A | Not Regulated | Not Regulated |
| 14.2 UN Proper Shipping Name | N/A | N/A | Not Regulated | Not Regulated |
| 14.3 Transport Hazard Classes | N/A | N/A | Not Regulated | Not Regulated |
| 14.4 Packing Group | N/A | N/A | Not Regulated | Not Regulated |
| 14.5 Environmental Hazards | N/A | N/A | Not Regulated | Not Regulated |
| 14.6 Special Precautions for User | No | No | No | No |

^{*}Product is not considered dangerous for transport according to the above specifications.

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture: Ensure all national/local regulations are observed.

SARA 302 Components: The following components are subject to reporting levels established by SARA Title III, Section 302:

Sodium Azide, CAS-No. 26628-22-8

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium Azide, CAS-No. 26628-22-8

SARA 311/312 Components: The following components are subject to reporting levels established by SARA Title III, Section 311/312:

Sodium Azide, CAS-No. 26628-22-8

Massachusetts Right To Know Components: Sodium Azide; CAS-No. 26628-22-8 Pennsylvania Right To Know Components: Sodium Azide; CAS-No. 26628-22-8 New Jersey Right To Know Components: Sodium Azide; CAS-No. 26628-22-8

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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15.2 Chemical Safety Assessment

For this substance, a chemical safety assessment is not required.

16. Other Information

Indication of Changes

This SDS has been revised on <u>June 1, 2015</u> to reflect current requirements after the adoption of Globally Harmonized Standards and according to Regulation (EC) No 1272/2008 and Regulation (EC) No 1907/2006.

END OF SDS

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 distributors, 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.

The user is responsible for determining what type of PPE is appropriate for handling these materials.

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