

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**Product Identifier****Product name:** CPDA-1**Other means of identification:** Anticoagulant Citrate Phosphate Dextrose Adenine Solution, USP, Anticoagulant Citrate Phosphate Dextrose Adenine Solution, EP, Anticoagulant Citrate Phosphate Dextrose Adenine Solution, CPDA Solution, CPDA-1 Solution, CPDA, Anticoagulant Citrate Dextrose Adenine Solution (CPDA)**Intended Use Of The Product****Use of the substance/mixture:** Pharmaceutical. For professional use only.**Name, Address, And Telephone Of The Responsible Party**

Fenwal Inc.

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847-550-2300

www.fenwalinc.comEHS@fenwalinc.com**Emergency Telephone Number****Emergency number** : 760-476-3962**SECTION 2: HAZARDS IDENTIFICATION****Classification Of The Substance Or Mixture****GHS-US classification**

Not classified

Label Elements**GHS-US labeling** No labeling applicable**Other Hazards** Not available**Unknown acute toxicity (GHS US)** Not available**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Name	Product Identifier	% (w/w)	GHS-US classification
Water	(CAS No.) 7732-18-5	90 - 99	Not classified
Trisodium citrate dihydrate	(CAS No.) 6132-04-3	1 - 5	Not classified
.alpha.-D-Glucopyranose, monohydrate	(CAS No.) 14431-43-7	1 - 5	Not classified

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES**Description Of First Aid Measures****General:** If you feel unwell, seek medical attention (show the label if possible).**Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.**Skin Contact:** Gently wash with plenty of soap and water.**Eye Contact:** Rinse with plenty of water immediately. Remove contact lenses, if present and easy to do. Continue rinsing.**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor.**Most Important Symptoms And Effects Both Acute and Delayed****General:** Not expected to present a significant hazard under normal use.**Inhalation:** None expected under normal conditions of use.**Skin Contact:** Repeated or prolonged skin contact may cause mild skin irritation.**Eye Contact:** May cause slight irritation.**Ingestion:** Pharmaceutical anticoagulant. May be harmful if ingested.**Chronic symptoms:** Not available

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Indication Of Any Immediate Medical Attention And Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media: Not flammable. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

Special Hazards Arising From The Substance Or Mixture

Fire hazard: Not flammable

Explosion hazard: Product is not explosive.

Reactivity: Stable at ambient temperature and under normal conditions of use.

Advice For Firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Protection during firefighting: Firefighters should wear full protective gear.

Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference To Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures

General measures: Avoid all contact with skin, eyes, or clothing.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods And Material For Containment And Cleaning Up

For containment: Stop the flow of material, if this is without risk.

Methods for cleaning up: Absorb spillage to prevent material damage

Reference To Other Sections

Refer to section 8 for Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions For Safe Handling Avoid all contact with skin, eyes, or clothing.

Conditions For Safe Storage, Including Any Incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, well-ventilated place.

Specific End Use(s) Pharmaceutical.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate engineering controls: Provide adequate ventilation.

Personal protective equipment: Avoid all unnecessary exposure.

Hand protection: Protective gloves.

Eye protection: Chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: None required under normal product handling conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

Physical state	: Liquid
Appearance	: Aqueous solution
Odour	: None
Odour threshold	: Not available

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pH	: 5 - 6
Relative evaporation rate (butylacetate=1)	: Similar to water
Melting point	: Similar to water
Freezing point	: Similar to water
Boiling point	: 100°C (212°F)
Flash point	: Not flammable
Auto-ignition temperature	: Not applicable
Decomposition Temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Lower flammable limit	: Not flammable
Upper flammable limit	: Not flammable
Vapour pressure	: Similar to water
Relative vapour density at 20 °C	: Similar to water
Relative density	: 1.0247 (water = 1)
Specific gravity	: 1.0247
Solubility	: Not applicable
Log Pow	: Not applicable
Log Kow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosion data - sensitivity to mechanical impact	: Not applicable
Explosion data - sensitivity to static discharge	: Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable at ambient temperature and under normal conditions of use.

Chemical Stability Stable at standard temperature and pressure.

Possibility Of Hazardous Reactions Hazardous polymerization will not occur.

Conditions To Avoid Extremely high or low temperatures.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides (CO, CO₂). Chlorine. Sodium oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute toxicity : Not classified

LD50 and LC50 Data Not available

Skin corrosion/irritation: Not classified (pH: 5 – 6).

Serious eye damage/irritation: Not classified (pH: 5 – 6).

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific target organ toxicity (repeated exposure): Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: None expected under normal conditions of use.

Symptoms/injuries after skin contact: Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/injuries after eye contact: May cause slight irritation.

Symptoms/injuries after ingestion: Pharmaceutical anticoagulant. May be harmful if ingested.

Information On Toxicological Effects - Ingredient(s)

LD50 and LC50 Data: Not available

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - general: No known ecological damage caused by this product.

Persistence And Degradability Not available

Bioaccumulative Potential Not available

Mobility In Soil Not available

Other Adverse Effects Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

In accordance with ICAO/IATA/DOT/TDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

Additional information Not regulated for transport

Overland transport Not regulated for transport

Transport by sea Not regulated for transport

Air transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State regulations

Neither this product nor its chemical components appear on any US state lists.

Canadian regulations

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WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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Trisodium citrate dihydrate (6132-04-3)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Indication of Changes : Revision date 11/05/2013

Data sources : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible For The Preparation Of This Document:

Fenwal Inc.

Phone Number: 847-550-2300

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS