

**SECTION 1: IDENTIFICATION**
**1.1. Product Identifier**
**Product Form:** Mixture

**Product Name:** CPDA-1, USP

**Synonyms:** Product Synonym(s): Anticoagulant Citrate Phosphate Dextrose Adenine Solution, USP; Anticoagulant Citrate Phosphate Dextrose Adenine Solution; CPDA Solution; CPDA-1 Solution; CPDA; Anticoagulant Citrate Dextrose Adenine Solution (CPDA).

**1.2. Intended Use of the Product**

Anticoagulant. For professional use only.

**1.3. Name, Address, and Telephone of the Responsible Party**
**Manufacturer**

 Fresenius Kabi AG  
 61346 Bad Homburg  
 Germany  
 1-800-933-6925

**Distributor**

 Fresenius Kabi USA, LLC  
 Three Corporate Drive  
 Lake Zurich, Illinois 60047  
 USA

General Phone Number: (847) 550-2300

Customer Service Phone Number: (888) 386-1300

Health Issues Information: (800) 551-7176

<http://www.fresenius-kabi.com/us/>
**1.4. Emergency Telephone Number**
**Emergency Number** : VelocityEHS  
 (800)255-3924 (North America)  
 +1 (813)248-0585 (International)

**SECTION 2: HAZARDS IDENTIFICATION**
**2.1. Classification of the Substance or Mixture**
**GHS-US/CA Classification**

Not classified.

**2.2. Label Elements**
**GHS-US/CA Labeling**

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

**2.3. Other Hazards**

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

**2.4. Unknown Acute Toxicity (GHS-US/CA)**

No additional information available

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**
**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Water	AQUA	(CAS-No.) 7732-18-5	93.3	Not classified.
Glucose	Anhydrous dextrose / Cartose / Cerelose / Corn sugar / Dextrose / D-Glucose / .delta.-Glucose / Grape sugar / Sugar, grape	(CAS-No.) 50-99-7	3.19	Combustible Dust
D-Glucose, monohydrate	D-Glucose monohydrate / Dextrose monohydrate / Glucose hydrate	(CAS-No.) 77938-63-7**	3.19**	Combustible Dust

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Trisodium citrate dihydrate	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate / Citric acid, trisodium salt, dihydrate / 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt, hydrate (1:3:2) / Sodium citrate, dihydrate / Trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate / Sodium citrate dihydrate / Trisodium citrate	(CAS-No.) 6132-04-3	2.63	Combustible Dust
Citric acid monohydrate	Citric acid, monohydrate / 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate / 2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate / 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, hydrate (1:1)	(CAS-No.) 5949-29-1	0.33	Eye Irrit. 2A, H319 STOT SE 3, H335 Combustible Dust
Citric acid	1,2,3-Propanetricarboxylic acid, 2-hydroxy- / 2-Hydroxypropane-1,2,3-tricarboxylic acid / 2-Hydroxy-1,2,3-propanetricarboxylic acid	(CAS-No.) 77-92-9	0.3	Eye Irrit. 2, H319 STOT SE 3, H335 Combustible Dust
Phosphoric acid, monosodium salt, monohydrate	Monosodium dihydrogen phosphate, monohydrate / Sodium dihydrogen phosphate monohydrate / Monobasic sodium phosphate monohydrate / Sodium phosphate, monobasic, monohydrate	(CAS-No.) 10049-21-5	0.22	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium hydroxide	Caustic soda / Sodium hydroxide (Na(OH)) / Lye	(CAS-No.) 1310-73-2	< 0.1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Adenine	6-Amino-1H-purine / 6-Amino-3H-purine / 6-Amino-9H-purine / 6-Aminopurine / 3,6-Dihydro-6-iminopurine / 1,6-Dihydro-6-iminopurine / Leuco-4 / 1H-Purin-6-amine / Vitamin B4 / 9H-Purin-6-amine / 1H-Purine-6-amine	(CAS-No.) 73-24-5	0.03	Acute Tox. 3 (Oral), H301

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%).

\*\*Alternate CAS number

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Wash immediately with plenty of soap and water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** Prolonged exposure may cause slight irritation to eyes.

**Ingestion:** Ingestion of large quantities may have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, foam, water spray, fog.

**Unsuitable Extinguishing Media:** None known.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive. Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Storage Temperature:** Avoid excessive heat.

### 7.3. Specific End Use(s)

Anticoagulant. For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

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For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH OEL Ceiling	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA	2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL Ceiling	2 mg/m <sup>3</sup>
USA IDLH	IDLH	10 mg/m <sup>3</sup>
Alberta	OEL C	2 mg/m <sup>3</sup>
British Columbia	OEL C	2 mg/m <sup>3</sup>
Manitoba	OEL C	2 mg/m <sup>3</sup>
New Brunswick	OEL C	2 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL C	2 mg/m <sup>3</sup>
Nova Scotia	OEL C	2 mg/m <sup>3</sup>
Nunavut	OEL C	2 mg/m <sup>3</sup>
Northwest Territories	OEL C	2 mg/m <sup>3</sup>
Ontario	OEL C	2 mg/m <sup>3</sup>
Prince Edward Island	OEL C	2 mg/m <sup>3</sup>
Québec	Plafond OEL C	2 mg/m <sup>3</sup>
Saskatchewan	OEL C	2 mg/m <sup>3</sup>
Yukon	OEL C	2 mg/m <sup>3</sup>

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Aqueous solution
Odor	: None
Odor Threshold	: No data available
pH	: 5 – 6
Evaporation Rate	: Similar to water
Melting Point	: ≈ 0 °C (32 °F)
Freezing Point	: ≈ 0 °C (32 °F)
Boiling Point	: 100 °C (212 °F)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable

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Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: Similar to water
Relative Vapor Density at 20 °C	: Similar to water
Relative Density	: 1.0247
Specific Gravity	: 1.0247
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

#### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

#### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

#### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

#### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Ingestion. Skin and eye contact.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data: No additional information available

Skin Corrosion/Irritation: Not classified.

Eye Damage/Irritation: Not classified.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

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: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Prolonged exposure may cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion of large quantities may have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Glucose (50-99-7)	
LD50 Oral Rat	25800 mg/kg (Source: NLM_CIP)
Water (7732-18-5)	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)
Citric acid (77-92-9)	
LD50 Oral Rat	3 g/kg (Source: NLM_CIP)
LD50 Dermal Rat	> 2000 mg/kg (Source: EU_CLH)

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<b>Adenine (73-24-5)</b>	
LD50 Oral Rat	227 mg/kg (Source: NLM_CIP)
<b>Sodium hydroxide (1310-73-2)</b>	
LD50 Oral Rat	325 mg/kg
LD50 Dermal Rabbit	1350 mg/kg (Source: NLM_HSDB)
<b>Citric acid monohydrate (5949-29-1)</b>	
LD50 Oral Rat	5790 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

<b>Citric acid (77-92-9)</b>	
LC50 Fish	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: OECD_SIDS)
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 Fish	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Crustacea	40 mg/l

### 12.2. Persistence and Degradability

<b>CPDA-1, USP</b>	
Persistence and Degradability	Not established.
<b>Citric acid (77-92-9)</b>	
Persistence and Degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative Potential

<b>CPDA-1, USP</b>	
Bioaccumulative Potential	Not established.
<b>Citric acid (77-92-9)</b>	
Partition coefficient n-octanol/water (Log Pow)	-1.72 at 20 °C
<b>Adenine (73-24-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-0.1 at 20 °C (at pH >=6.5-<=6.8)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Treatment Methods:** Product contaminated with biological materials should preferably be incinerated.

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

### 14.4. In Accordance with TDG

Not regulated for transport

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### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

<b>Glucose (50-99-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Citric acid (77-92-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Adenine (73-24-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Sodium hydroxide (1310-73-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	1000 lb

#### 15.2. US State Regulations

<b>Sodium hydroxide (1310-73-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### 15.3. Canadian Regulations

<b>Glucose (50-99-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Water (7732-18-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Citric acid (77-92-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Adenine (73-24-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Sodium hydroxide (1310-73-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Citric acid monohydrate (5949-29-1)</b>
Listed on the Canadian DSL (Domestic Substances List)

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest** : 05/01/2024

#### Revision

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

#### GHS Full Text Phrases:

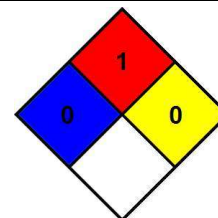
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

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- NFPA Health Hazard** : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
- NFPA Fire Hazard** : 1 - Materials that must be preheated before ignition can occur.
- NFPA Reactivity Hazard** : 0 - Material that in themselves are normally stable, even under fire conditions.
- HMIS III Rating
- Health** : 0 Minimal Hazard - No significant risk to health
- Flammability** : 1 Slight Hazard
- Physical** : 0 Minimal Hazard



### Glossary of Data Source Abbreviations

- ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)
- AU\_WES: Australia WES
- CHEMVIEW: ChemView (U.S. Environmental Protection Agency)
- EC\_RAR: European Commission Renewal Assessment Report
- EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits
- ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports
- ECHA\_API: European Chemicals Agency API
- ECHA\_RAC: ECHA Committee for Risk Assessment
- EFSA: European Food Safety Authority
- EPA: U.S. Environmental Protection Agency
- EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)
- EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
- EPA\_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)
- EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)
- EU\_CLH: European Union Harmonised Classification and Labelling Proposal
- EU\_RAR: European Union Risk Assessment Report
- FOOD\_JOURN: Food Research Journal (1956)
- IARC: The International Agency for Research on Cancer
- IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
- IUCLID: International Uniform Chemical Information Database
- JAPAN\_GHS: Japan GHS Basis for Classification Data
- JP\_J-CHECK: Japan J-Check
- KR\_NIER: South Korea National Institute of Environmental Research Evaluations
- NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
- NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
- NLM\_CIP: National Library of Medicine ChemID plus database
- NLM\_HSUB: National Library of Medicine Hazardous Substance Data Bank
- NLM\_PUBMED: National Library of Medicine PubMed database
- NTP: National Toxicology Program
- NZ\_CCID: New Zealand Chemical Classification and Information Database
- OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
- OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
- WHO: World Health Organization

*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.*

NA GHS SDS 2015 (Can, US)