

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**Product Identifier****Product name:** ACD-A**Synonyms:** Anticoagulant Citrate Dextrose Solution, Formula A, EP, Anticoagulant Citrate Phosphate Dextrose Solution, ACD-A Solution, ACD Solution, ACD-A, ACD, ACD Solution, USP, formula A, ACD-A anticoagulant, Anticoagulant Citrate Dextrose Solution, USP, Formula A (ACD-A)**Intended Use Of The Product****Use of the substance/mixture:** Anticoagulant. For professional use only.**Name, Address, And Telephone Of The Responsible Party**

Fenwal Inc.

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Lake Zurich, IL 60047

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
Glucose	(CAS No.) 50-99-7	1 - 5	Combustible Dust
Trisodium citrate dihydrate	(CAS No.) 6132-04-3	1 - 5	Combustible Dust

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES**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:** None expected under normal conditions of use. When symptoms occur: go into open air and ventilate suspected area.**Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Drench affected area with water for at least 15 minutes.**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Ingestion:** Get immediate medical attention. Rinse mouth. Do NOT induce vomiting.**Most Important Symptoms And Effects Both Acute and Delayed****General:** None expected under normal conditions of use.**Inhalation:** Inhalation is not considered a potential route of exposure.**Skin Contact:** Repeated exposure may cause skin dryness or cracking.**Eye Contact:** May cause slight irritation.

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Ingestion: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic symptoms: Repeated exposure may cause skin dryness or cracking.

Indication Of Any Immediate Medical Attention And Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

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.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice For Firefighters

Precautionary measures fire: Not available

Firefighting instructions: Exercise caution when fighting any chemical fire.

Protection during firefighting: Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

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

For Non-Emergency Personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods And Material For Containment And Cleaning Up

For containment: Absorb and/or contain spill with inert material, then place in suitable container.

Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

Reference To Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions For Safe Handling

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions For Safe Storage, Including Any Incompatibilities

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

Incompatible materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Anticoagulant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

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

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Exposure Controls

Appropriate engineering controls: Ensure all national/local regulations are observed.

Personal protective equipment: Gloves



Materials for protective clothing: Not available

Hand protection: Protective gloves

Eye protection: Not available

Skin and body protection: Wear suitable working clothes.

Respiratory protection: None required under normal product handling conditions.

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

Physical state	: Liquid
Appearance	: Clear
Odour	: Not available
Odour threshold	: Not available
pH	: 4.5 - 5.5 at 25°C (77°F)
Relative evaporation rate (butylacetate=1)	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapour pressure	: Similar to water
Relative vapour density at 20 °C	: Not available
Relative density	: Not available
Specific gravity density	: Not available
Solubility	: Not available
Log Pow	: Not available
Log Kow	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: Not available
Explosion data - sensitivity to mechanical impact	: Not available
Explosion data - sensitivity to static discharge	: Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical Stability Stable under normal conditions.

Possibility Of Hazardous Reactions Hazardous polymerization will not occur.

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Conditions To Avoid Direct sunlight. Extremely high or low temperatures.
Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute toxicity : Not classified

LD50 and LC50 Data Not available

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

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: Inhalation is not considered a potential route of exposure.

Symptoms/injuries after skin contact: Repeated exposure may cause skin dryness or cracking.

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

Symptoms/injuries after ingestion: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract.

Information On Toxicological Effects - Ingredient(s)

LD50 and LC50 Data

Glucose (50-99-7)

LD50 oral rat	25800 mg/kg
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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

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

Persistence And Degradability

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Persistence and degradability	Not established.
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Bioaccumulative Potential

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Bioaccumulative potential	Not established.
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Mobility In Soil Not available

Other Adverse Effects

Other information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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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

Glucose (50-99-7)

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

Water (7732-18-5)

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

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Glucose (50-99-7)

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

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Trisodium citrate dihydrate (6132-04-3)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

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 : 11/05/2013

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

GHS Full Text Phrases:

Comb. Dust Combustible Dust

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.