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SDS number: 03A

Revision number: 3CH

1. Identification of the substance/preparation and the company/undertakingProduct name: **UA CONTROLS****Other mean of identification**

Component: UA Control Abnormal
Product code(s): CHUA260, CHUA215

Component: UA Control Normal
Product code(s): CHUA160, CHUA115

Kit Combination: UA Control Bottle Set
Product code(s): CH1470-01

Kit Combination: UA Control Tube Set
Product code(s): CH1440-01

Kit Combination: UA Control Dropper Set
Product code(s): CH1440-02, CH1440-04

Recommended use of the chemical and restrictions on useRecommended use: For *in vitro* diagnostic use only.

Use of the substance/preparation: UA Control (Abnormal), I (Normal), Abnormal with
Microscopics, Normal with Microscopic Additives

Supplier address/information

Cardinal HealthN FBN
7000 Cardinal Place
Dublin, Ohio 43017
877.CARDINAL (877.227.3462)

Emergency telephone number: CHEMTREC 800.424.9300

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2. Hazards Identification

Classification

Hazard identifier	Component
Physical state	UA Control Abnormal - Liquid
	UA Control Normal - Liquid
	I
OSHA/HCS status	
UA Control Abnormal	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
UA Control Normal	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFT 1910.1200).

Emergency overview – Label statement

UA Control Abnormal	Not expected to produce significant adverse health effects when the recommended instructions to use are followed.
UA Control Normal	CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE BASED ON ANIMAL DATA.
UA Control Abnormal	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
UA Control Normal	AVOID EXPOSURE . OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. DO NOT BREATHE VAPOR OR MIST. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE BASED ON ANIMAL DATA.
UA Control Abnormal	Not available.
UA Control Normal	CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES, SKIN.

Potential acute health effects

Eyes:

- UA Control Abnormal No known significant effects or critical hazards.
- UA Control Normal No known significant effects or critical hazards.

Skin:

- UA Control Abnormal No known significant effects or critical hazards.

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- UA Control Normal

No known significant effects or critical hazards.

Inhalation:

- UA Control Abnormal
- UA Control Normal

Exposure to decomposition products may cause a health hazard.
Serious effects may be delayed following exposure.
No known significant effects or critical hazards.

Ingestion:

- UA Control Abnormal
- UA Control Normal

No known significant effects or critical hazards.
Harmful if swallowed.

Medical conditions aggravated by over exposure:

- UA Control Abnormal
- UA Control Normal

Not applicable.
Repeated or prolonged exposure to the substance can product target organs damage.

Overexposure signs/symptoms:

- UA Control Abnormal
- UA Control Normal

Not applicable.
Not applicable.

Other information

See toxicological information on section 11.

3. Composition/Information on ingredients

Chemical name	CAS-No	Weight %
UA Control Normal – I		
Disodium hydrogenorthophosphate	7558-79-4	0.5 – 1.5

There are no ingredients or additional ingredients present which within the current knowledge of the supplier and in the concentrations applicable are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact:

- UA Control Abnormal
- UA Control Normal

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.

Skin contact:

- UA Control Abnormal
- UA Control Normal

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if adverse health effects persist or are severe
In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if adverse health effects persist or are severe

Inhalation:

- UA Control Abnormal

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if adverse health effects persist or are severe.

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- UA Control Normal

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if adverse health effects persist or are severe.

Ingestion:

- UA Control Abnormal
- UA Control Normal

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if adverse health effects persist or are severe.

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if adverse health effects persist or are severe.

Protection of first-aiders:

- UA Control Abnormal
- UA Control Normal

Not applicable.

Not applicable.

Notes to Physician:

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product:

- UA Control Abnormal
- UA Control Normal

Non-flammable.

Non-flammable.

Products of combustion:

- UA Control Abnormal
- UA Control Normal

Decomposition products may include the following materials:

carbon oxides
nitrogen oxides
sulfur oxides
metal oxide/oxides

Decomposition products may include the following materials:
phosphorus oxides
metal oxide/oxides

Suitable extinguishing media:

- UA Control Abnormal
- UA Control Normal

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:

- UA Control Abnormal
- UA Control Normal

Not applicable.

Not applicable.

Protective equipment and precautions for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- UA Control Abnormal
- UA Control Normal

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

No action shall be taken involving any personal risk or without suitable

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training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

- UA Control Abnormal

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

- UA Control Normal

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- UA Control Abnormal

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

- UA Control Normal

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage**Precautions for safe handling**

Handling:

- UA Control Abnormal
- UA Control Normal

Wash thoroughly after handling.

Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage:

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection**Control parameters**

Exposure guidelines

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Appropriate engineering controls

Engineering measures:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to

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keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/face 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 dust.
Skin and body protection:	Chemical resistant protective gloves and clothing are recommended. The choice of protective gloves or clothing must be based on chemical resistance and other use requirements. Generally, BUNA-N offers acceptable chemical resistance. Individuals who are acutely and specifically sensitive to this chemical may require additional protective clothing.
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

- | | |
|-----------------------|---------|
| • UA Control Abnormal | Liquid. |
| • UA Control Normal | Liquid. |

Color

- | | |
|-----------------------|---------------|
| • UA Control Abnormal | Amber/Red. |
| • UA Control Normal | Green/Yellow. |

pH:

- | | |
|-----------------------|-------------------|
| • UA Control Abnormal | 7.5 to 8 [Basic.] |
| • UA Control Normal | 7.5 to 8 [Basic.] |

Boiling/condensation point:

- | | |
|-----------------------|------------------|
| • UA Control Abnormal | ~ 100°C (212°F) |
| • UA Control Normal | ~ 100°C (212°F). |

Solubility:

- | | |
|-----------------------|--|
| • UA Control Abnormal | Easily soluble in the following materials: cold water and hot water. |
| • UA Control Normal | Easily soluble in the following materials: cold water and hot water. |

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10. Stability and reactivity

Reactivity:	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Chemical stability:	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Incompatible materials	Incompatible with: strong acids, oxidizing agents, alkalis, metals and heat.
Hazardous decomposition products	
<ul style="list-style-type: none"> UA Control Abnormal 	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<ul style="list-style-type: none"> UA Control Normal I 	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Inhalation:

- UA Control Abnormal Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- UA Control Normal No known significant effects or critical hazards.

Eye contact:

- UA Control Abnormal No known significant effects or critical hazards.
- UA Control Normal No known significant effects or critical hazards.

Skin contact:

- UA Control Abnormal No known significant effects or critical hazards.
- UA Control Normal No known significant effects or critical hazards.

Ingestion:

- UA Control Abnormal No known significant effects or critical hazards.
- UA Control Normal Harmful if swallowed.

Potential chronic health effects

Chronic effects:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Over-exposure signs/symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No specific data.
Ingestion:	Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Skin:	No specific data.
Eyes:	No specific
Target organs:	
<ul style="list-style-type: none"> UA Control Abnormal 	Not available.

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- UA Control Normal

Contains material which may cause damage to the following organs:
mucous membranes, skin.

Other adverse effects

- UA Control Abnormal
- UA Control Normal

To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

12. Ecological information**Environmental effects:**

Harmful to aquatic organisms that may cause long-term adverse effects in the aquatic environment.

Biodegradability**Conclusion/Summary:**

This product is unlikely to biodegrade at a significant rate.

Other adverse effects:

No known significant effects or critical hazards.

13. Disposal considerations**Waste disposal methods:**

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information**Regulatory information**

- DOT / IMDG / IATA:

Not regulated.

15. Regulatory information**HCS Classification**

- UA Control Abnormal
- UA Control Normal

Not regulated.

Target organ effects.

- UA Control Abnormal
- UA Control Normal

Not available.

Contains material which may cause damage to the following organs:
mucous membranes, skin.

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U.S. Federal regulations

- UA Control Abnormal

TSCA 5(a)2 final significant rules: Sodium nitrite**TSCA 8(a) PAIR:** Glutaral**United States inventory (TSCA 8b):** At least one component is not listed.**TSCA 8(d) H and S data reporting:** Sodium nitrite: 1991; Glutaral: 1991**TSCA 12(b) annual export notification:** Sodium nitrite**TSCA precursor chemical list:** Potassium cyanide**United States inventory (TSCA 8b):** At least one component is not listed.

- UA Control Normal

- UA Control Abnormal

SARA 302/304/311/312 extremely hazardous substances: No products were found.**SARA 302/304 emergency planning and notification:** No products were found.**SARA 302/304/311/312 hazardous chemicals:** No products were found.**SARA 311/312 MSDS distribution - chemical inventory -hazard identification:** No products were found.**SARA 302/304/311/312 extremely hazardous substances:** No products were found.**SARA 302/304 emergency planning and notification:** No products were found.**SARA 302/304/311/312 hazardous chemicals:** Disodium hydrogenorthophosphate**SARA 311/312 MSDS distribution - chemical inventory -hazard identification:** Disodium hydrogenorthophosphate: Immediate (acute) health hazard

- UA Control Normal

- UA Control Abnormal

Clean Water Act (CWA) 307: Tripotassium hexacyanoferrate; Potassium cyanide.**Clean Water Act (CWA) 307:** No products were found.

- UA Control Normal

- UA Control Abnormal

Clean Water Act (CWA) 311: Sodium nitrite; Potassium cyanide; Disodium hydrogenorthophosphate; Ammonium oxalate monohydrate**Clean Water Act (CWA) 311:** Disodium hydrogenorthophosphate

- UA Control Normal

- UA Control Abnormal

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

- UA Control Normal

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

- UA Control Abnormal

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

- UA Control Normal

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.**U.S. state regulations**

- UA Control Abnormal

Connecticut Carcinogen Reporting: None of the components are listed.**Connecticut Hazardous Material Survey:** None of the components are listed.**Florida substances:** None of the components are listed. Illinois**Chemical Safety Act:** None of the components are listed.

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Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: None of the components are listed.

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

Rhode Island Hazardous Substances: None of the components are listed.

- UA Control Normal

Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: The following components are listed:
Disodium hydrogenorthophosphate

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: The following components are listed: Disodium hydrogenorthophosphate

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: The following components are listed: Disodium hydrogenorthophosphate

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: The following components are listed: Disodium hydrogenorthophosphate

Rhode Island Hazardous Substances: None of the components are listed.

California Proposition 65: This product does not contain any Proposition 65 chemicals/No products were found.

16. Other information

Label requirements

- UA Control Abnormal

Not expected to produce significant adverse health effects when the recommended instructions to use are followed.



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- UA Control Normal

Contains material that may cause target organ damage based on animal data.

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.