

**I. PRODUCT IDENTIFICATION:** AQUAfast IV Cyanide (Free) (30 tests)

CATALOG NO.: AC4006  
ID CODE: 008

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**II. COMPONENTS**

COMPONENT:	%	LD <sub>50</sub> mg/kg
Barbituric Acid CAS NO.: 67-52-7	1.0	None Found
Sodium Hydroxide CAS NO.: 1310-73-2	1.2	40 (IPR-MUS)
Isonicotinic Acid CAS NO.: 55-22-1	2.0	5,000 (ORL-RAT)
Deionized Water CAS NO.: 7732-18-5	>95.0	190,000 (IPR-MUS)

**III. PHYSICAL DATA**

STATE: Liquid APPEARANCE: Colorless to Pale Straw Yellow  
ODOR THRESHOLD: None  
SENSITIVITY TO MECHANICAL IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
COEFFICIENT OF OIL/WATER DISTRIBUTION: None  
SOLUBILITY IN WATER: Complete pH: 10  
BOILING POINT: 103°C MELTING POINT: 2°C  
VAPOR PRESSURE: N/A  
SPECIFIC GRAVITY: 1.0  
VAPOR DENSITY: N/A

**IV. FIRE AND EXPLOSION DATA**

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide or water spray

**V. REACTIVITY DATA**

HAZARDOUS DECOMPOSITION PRODUCTS: None

**VI. HEALTH HAZARD DATA**

OSHA & ACGIH THRESHOLD LIMIT VALUE: None established  
ACUTE TOXICITY: Irritation  
CHRONIC TOXICITY: Irritation and sensitization dermatitis  
CARCINOGEN STATUS: None  
TERATOGEN STATUS: None  
MUTAGEN STATUS: None  
REPRODUCTIVE TOXICITY: None  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause eye, skin and mucous membrane irritation.

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**VII. FIRST AID**

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.

INGESTION: Seek medical attention.

INHALATION: Remove individual to fresh air.

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**VIII. PRECAUTIONS**

**Always wear eye protection when working with these cuvettes.**

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.  
Wash thoroughly after handling.  
Avoid contact with eyes.  
FRAGILE: Liquid in glass. Handle with care.  
PROTECTIVE EQUIPMENT: Safety glasses

**IX. SPILL AND DISPOSAL PROCEDURES**

Take up with absorbent material. Place in small containers for disposal. Dispose of in accordance with all Federal, State and Local Regulations.

**X. STORAGE CONDITIONS**

Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

**XI. OTHER INFORMATION**

Components are listed in the EPA, TSCA Inventory.  
Components are not regulated by California Proposition 65.  
DOT Class: None UN/ICAO Class: None  
TDG Class: None  
CPR Classification: None  
MSDS Discloses Information Elements Required by the CPR.

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

**I. PRODUCT IDENTIFICATION:** AQUAfast IV Cyanide Neutralizer Solution

CATALOG NO.: Part of AC4006

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**II. COMPONENTS**

COMPONENT:	%	LD <sub>50</sub> mg/kg
Sodium Phosphate, Monobasic, Dihydrate CAS NO.: 13472-35-0	22.5	None Listed
Deionized Water CAS NO.: 7732-18-5	77.5	190,000 (IPR-MUS)

**III. PHYSICAL DATA**

STATE: Liquid APPEARANCE: Colorless  
ODOR THRESHOLD: None  
SENSITIVITY TO MECHANICAL IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
COEFFICIENT OF OIL/WATER DISTRIBUTION: None  
SOLUBILITY IN WATER: Miscible pH: 4  
BOILING POINT: 106°C MELTING POINT: 3°C  
VAPOR PRESSURE: Not determined  
SPECIFIC GRAVITY: > 1.0  
VAPOR DENSITY: Not determined

**IV. FIRE AND EXPLOSION DATA**

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: Dry chemical, water spray or foam

**V. REACTIVITY DATA**

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include toxic oxides of phosphorus and sodium oxide.

**VI. HEALTH HAZARD DATA**

OSHA & ACGIH THRESHOLD LIMIT VALUE: None established  
ACUTE TOXICITY: Irritation  
CHRONIC TOXICITY: Irritation and sensitization dermatitis  
CARCINOGEN STATUS: None  
TERATOGEN STATUS: None  
MUTAGEN STATUS: None  
REPRODUCTIVE TOXICITY: None  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause irritation to eyes, skin and mucous membranes. May cause dermatitis and conjunctivitis.

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**VII. FIRST AID**

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.

INGESTION: Seek medical attention.

INHALATION: Remove individual to fresh air.

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**VIII. PRECAUTIONS**

Always wear eye protection when working with the neutralizer solution.

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.  
Wash thoroughly after handling.  
Avoid contact with eyes.  
PROTECTIVE EQUIPMENT: Safety glasses

**IX. SPILL AND DISPOSAL PROCEDURES**

Take up with absorbent material. Place in small containers for disposal. Dispose of in accordance with all Federal, State and Local Regulations.

**X. STORAGE CONDITIONS**

Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

**XI. OTHER INFORMATION**

Components are listed in the EPA, TSCA Inventory.  
Components are not regulated by California Proposition 65.  
DOT Class: None UN/ICAO Class: None  
TDG Class: None  
CPR Classification: None  
MSDS Discloses Information Elements Required by the CPR.

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**I. PRODUCT IDENTIFICATION:** AQUAfast IV Cyanide Activator Solution

CATALOG NO.: Part of AC4006

PRODUCT USE: Reagent

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

**II. COMPONENTS**

COMPONENT:	%	LD <sub>50</sub> mg/kg
Sodium Hypochlorite CAS NO.: 7681-52-9	0.5	None found
Deionized Water CAS NO.: 7732-18-5	99.5	190,000 (IPR-MUS))

**III. PHYSICAL DATA**

STATE: Liquid APPEARANCE: Colorless  
ODOR THRESHOLD: None  
SENSITIVITY TO MECHANICAL IMPACT: None  
SENSITIVITY TO STATIC DISCHARGE: None  
COEFFICIENT OF OIL/WATER DISTRIBUTION: None  
SOLUBILITY IN WATER: Miscible pH: 10.5  
BOILING POINT: 100°C MELTING POINT: 0°C  
VAPOR PRESSURE: 14 mm Hg @ 20°C (H<sub>2</sub>O)  
SPECIFIC GRAVITY: 1.0  
VAPOR DENSITY: 0.7 (H<sub>2</sub>O)

**IV. FIRE AND EXPLOSION DATA**

FLASH POINT: N/A AUTOIGNITION POINT: N/A  
FLAMMABILITY LIMITS: UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: Dry chemical, water spray or foam

**V. REACTIVITY DATA**

HAZARDOUS DECOMPOSITION PRODUCTS: None

**VI. HEALTH HAZARD DATA**

OSHA & ACGIH THRESHOLD LIMIT VALUE: None established  
ACUTE TOXICITY: None known  
CHRONIC TOXICITY: None known  
CARCINOGEN STATUS: None  
TERATOGEN STATUS: None  
MUTAGEN STATUS: None  
REPRODUCTIVE TOXICITY: None  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May cause irritation to eyes, skin and mucous membranes.

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**VII. FIRST AID**

EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes.

INGESTION: Seek medical attention.

INHALATION: Remove individual to fresh air.

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**VIII. PRECAUTIONS**

Always wear eye protection when working with the activator solution.

If this product is used as directed, the user will not come in contact with or be exposed to any of its chemical components.  
Wash thoroughly after handling.  
Avoid contact with eyes.  
PROTECTIVE EQUIPMENT: Safety glasses

**IX. SPILL AND DISPOSAL PROCEDURES**

Take up with absorbent material. Place in small containers for disposal. Dispose of in accordance with all Federal, State and Local Regulations.

**X. STORAGE CONDITIONS**

Product should be stored in the dark and at room temperature; however, temperatures up to 120°F or even below freezing will not normally affect reagent performance.

**XI. OTHER INFORMATION**

Components are listed in the EPA, TSCA Inventory.  
Components are not regulated by California Proposition 65.  
DOT Class: None UN/ICAO Class: None  
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