



P.O. Box 5136
 Vernon Hills IL 60061, USA
 Phone: 888-462-5866 Fax: 847-247-2984 E-mail: info@4oakton.com

**Oakton 00654-00, 05942-21, 05942-22,
 05942-24, 05942-25, 35653-01**

**pH 4.01 Buffer
 Material Safety Data Sheet**

I. PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBERS: 00654-00, 05942-21, 05942-22, 05942-24, 05942-25, 35653-01
 PRODUCT NAME: pH 4.01 Buffer
 PRODUCT USE: Buffer
 NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
 MANUFACTURER'S NAME: Thermo Fisher Scientific, Inc
 ADDRESS: 166 Cummings Center, Beverly MA 01915, USA
 PHONE NUMBER FOR INFORMATION: 978-232-6000
 CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

II. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT		%	LD ₅₀ mg/kg
CAS NO.	Potassium Hydrogen Phthalate (C ₈ H ₅ O ₄ K)	1	> 3,200 (ORL-RAT)
CAS NO.	Amaranth Red Dye (C ₂₀ H ₁₁ N ₂ O ₁₀ S ₃ Na ₃)	<0.01	1000 (IRP-MUS)
CAS NO.	Deionized Water (H ₂ O)	99	190,000 (IPR-MUS)

III. HAZARDS IDENTIFICATION

Low hazard for normal use.
 Maybe harmful if swallowed. May cause irritation to eyes and skin.
 TARGET ORGANS: Eyes, skin.
 ACUTE TOXICITY: Low hazards.
 CHRONIC TOXICITY: May cause irritation to skin after prolonged exposure.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disease of the skin.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off with large amounts of water.
 INGESTION: Give large amounts of water. Consult physician.
 INHALATION: Not hazardous.

V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA
 FLAMMABILITY LIMITS: UPPER: NA LOWER: NA
 EXTINGUISHING MEDIA: Water, CO₂, dry chemical or foam.

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

VII. HANDLING AND STORAGE

Always wear eye protection and gloves when working with this product.
 Avoid contact with eyes, skin or clothing. Do not ingest.
 Store at room temperature. Keep away from heat and keep container closed.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: None listed.
 PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Light red liquid ODOR THRESHOLD: None
 SENSITIVITY TO MECHANICAL IMPACT: None
 SENSITIVITY TO STATIC DISCHARGE: None
 COEFFICIENT OF OIL/WATER DISTRIBUTION: None
 SOLUBILITY IN WATER: Soluble pH: 4.01
 SPECIFIC GRAVITY: 1.0
 BOILING POINT: 100°C MELTING POINT: Not determined
 VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.
 Incompatibles: Strong oxidizing agents, nitric acid.
 Hazardous decomposition product: None known.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, skin.
 Teratogen Status: None
 Mutagen Status: None
 Reproductive Toxicity: None.
 Carcinogen Status: None.

XII. ECOLOGICAL INFORMATION

None available.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

RISK PHRASES: None
 SAFETY PHRASES: S24/25 Avoid contact with skin and eyes.

US/CANADA INFORMATION

SARA/Title III: Ingredients not listed.
 Cal. Proposition 65: Ingredients not listed.
 US TSCA Inventory: Ingredients are listed
 CPR Class: None.
 TDG Class: None.
 MSDS discloses elements required by the CPR.

XVI. OTHER INFORMATION

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.

MSDS prepared by Environmental, Health and Safety group.



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Oakton 00654-04, 05942-41, 05942-42,
05942-44, 05942-45, 35653-02

pH 7.00 Buffer Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBERS: 00654-04, 05942-41, 05942-42, 05942-44, 05942-45, 35653-02

PRODUCT NAME: pH 7.00 Buffer

PRODUCT USE: Buffer

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

MANUFACTURER'S NAME: Thermo Fisher Scientific, Inc

ADDRESS: 166 Cummings Center, Beverly MA 01915, USA

PHONE NUMBER FOR INFORMATION: 978-232-6000

CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

II. COMPOSITION/INFORMATION ON INGREDIENTS

		%	LD ₅₀ mg/kg
COMPONENT	Potassium Dihydrogen Phosphate (KH ₂ PO ₄)		
CAS NO.	7778-77-0	<1	>4,640 (SKN-RBT)
COMPONENT	Disodium Hydrogen Phosphate (Na ₂ HPO ₄)		
CAS NO.	7558-79-4	<1	17 gm/kg (ORL-RAT)
COMPONENT	5-Bromo-5-Nitro-1,3-Dioxane (C ₄ H ₆ BrNO ₂)		
CAS NO.	30007-47-7	<1	455 (ORL-RAT)
COMPONENT	FD&C Yellow #5 (C ₁₆ H ₉ N ₄ O ₉ S ₂ Na ₃)		
CAS NO.	1934-21-0	<0.01	12,750 (ORL-MUS)
COMPONENT	FD&C Blue #1 (C ₃₇ H ₃₄ N ₂ O ₉ S ₃ Na ₂)		
CAS NO.	3844-45-9	<0.01	Not available
COMPONENT	Deionized Water (H ₂ O)		
CAS NO.	7732-18-5	99	190,000 (IPR-MUS)

III. HAZARDS IDENTIFICATION

Low hazard for normal use.

May be harmful if swallowed. May cause irritation to eyes and skin.

TARGET ORGANS: Eyes, skin.

ACUTE TOXICITY: Low hazard.

CHRONIC TOXICITY: May irritate skin after prolonged exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disease of the skin.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off with large amounts of water.

INGESTION: Give large amounts of water. Consult physician.

INHALATION: Not hazardous.

V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA

FLAMMABILITY LIMITS: UPPER: NA LOWER: NA

EXTINGUISHING MEDIA: Water, CO₂, dry chemical or foam.

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

VII. HANDLING AND STORAGE

Wear eye protection and gloves when working with this product.

Avoid contact with eyes, skin or clothing. Do not ingest.

Store at room temperature. Keep away from heat and keep container closed.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA THRESHOLD LIMIT: None listed.

ACGIH THRESHOLD LIMIT: None listed.

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Light green liquid ODOR THRESHOLD: None

SENSITIVITY TO MECHANICAL IMPACT: None

SENSITIVITY TO STATIC DISCHARGE: None

COEFFICIENT OF OIL/WATER DISTRIBUTION: None

SOLUBILITY IN WATER: Soluble pH: 7.00

SPECIFIC GRAVITY: 1.0

BOILING POINT: 100°C MELTING POINT: Not determined

VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.

Incompatibles: Oxidizers, strong acids and bases.

Hazardous decomposition product: May emit toxic fumes of sodium, potassium, and phosphorus oxides when heated to decomposition.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, skin.

Teratogen Status: None

Mutagen Status: None

Reproductive Toxicity: None

Carcinogen Status: None

XII. ECOLOGICAL INFORMATION

None available.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

RISK PHRASES: None

SAFETY PHRASES: S24/25 Avoid contact with skin and eyes.

US/ CANADA INFORMATION

SARA/Title III: Regulated under Section 302. Na₂HPO₄ is a CERCLA hazard and regulated under Section 304.

Cal. Proposition 65: Ingredients not listed.

US TSCA Inventory: Ingredients are listed.

CPR Class: None.

TDG Class: None.

MSDS discloses elements required by the CPR.

XVI. OTHER INFORMATION

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.

MSDS prepared by Environmental, Health and Safety group.

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Oakton 00654-08, 05942-61, 05942-62,
05942-64, 05942-65, 35653-03

pH 10.01 Buffer
Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBERS: 00654-08, 05942-61, 05942-62, 05942-64, 05942-65, 35653-03
PRODUCT NAME: pH 10.01 Buffer
PRODUCT USE: Buffer
NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
MANUFACTURER'S NAME: Thermo Fisher Scientific, Inc
ADDRESS: 166 Cummings Center, Beverly MA 01915, USA
PHONE NUMBER FOR INFORMATION: 978-232-6000
CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

II. COMPOSITION/INFORMATION ON INGREDIENTS

		%	LD ₅₀ mg/kg
COMPONENT	Sodium Bicarbonate (NaHCO ₃)		
CAS NO.	144-55-8	<1	4220 (ORL-RAT)
COMPONENT	Sodium Carbonate (Na ₂ CO ₃)		
CAS NO.	497-19-8	<1	117 (IPR-MUS)
COMPONENT	Methyl Paraben (C ₈ H ₈ O ₃)		
CAS NO.	99-76-3	<0.1	3000 (ORL-DOG)
COMPONENT	FD&C Blue #1 (C ₃₇ H ₃₄ N ₂ O ₉ S ₃ Na ₂)		
CAS NO.	3844-45-9	<0.01	Not available
COMPONENT	Deionized Water (H ₂ O)		
CAS NO.	7732-18-5	99	190,000 (IPR-MUS)

III. HAZARDS IDENTIFICATION

Low hazard for normal use.
May be harmful if swallowed. May cause irritation to eyes and skin.
TARGET ORGANS: Eye, skin.
ACUTE TOXICITY: Low hazard.
CHRONIC TOXICITY: May cause irritation to skin after prolonged exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disease of the skin.

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off with large amounts of water.
INGESTION: Give large amounts of water. Consult physician.
INHALATION: Not hazardous.

V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA
FLAMMABILITY LIMITS: UPPER: NA LOWER: NA
EXTINGUISHING MEDIA: Water, CO₂, dry chemical or foam.

VI. ACCIDENTAL RELEASE MEASURES

Take up with absorbent materials. Place in small containers for disposal. Wash spill site after material pick up is complete.

VII. HANDLING AND STORAGE

Always wear eye protection and gloves when working with this product.
Avoid contact with eyes, skin or clothing. Do not ingest.
Store at room temperature. Keep away from heat and keep container closed.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: None listed.
PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Light blue liquid ODOR THRESHOLD: None
SENSITIVITY TO MECHANICAL IMPACT: None
SENSITIVITY TO STATIC DISCHARGE: None
COEFFICIENT OF OIL/WATER DISTRIBUTION: None
SOLUBILITY IN WATER: Soluble pH: 10.01
SPECIFIC GRAVITY: 1.0
BOILING POINT: 100°C MELTING POINT: Not determined
VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.
Incompatibles: Na-K alloy, NH₄H₂PO₄, Al, P₂O₅, H₂SO₄.
Hazardous decomposition product: May emit fumes of carbon dioxides when heated to decomposition.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Eyes, skin.
Teratogen Status: None
Mutagen Status: None
Reproductive Toxicity: None
Carcinogen Status: None

XII. ECOLOGICAL INFORMATION

None available.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.

XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

RISK PHRASES: None
SAFETY PHRASES: S24/25 Avoid contact with skin and eyes.

US/ CANADA INFORMATION

SARA/Title III: Ingredients not listed.
Cal. Proposition 65: Ingredients not listed.
US TSCA Inventory: Ingredients are listed.
CPR Class: None.
TDG Class: None.
MSDS discloses elements required by the CPR.

XVI. OTHER INFORMATION

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