

Buffer pH 10.0 Solution (Colorless)

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Buffer pH 10.0 Solution (Colorless)

Product Code 34170-142

Manufacturer EMD Chemicals Inc.

P.O. Box 70

480 Democrat Road

Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was

EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

Effective Date 3/4/2003

For More Information Call

856-423-6300 Technical Service

Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call

800-424-9300 CHEMTREC
(USA)

613-996-6666 CANUTEC
(Canada)

24 Hours/Day: 7 Days/Week

Synonym None.

Material Uses Laboratory Reagent

Chemical Family Solution.

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
SODIUM BICARBONATE	144-55-8	0-1
SODIUM CARBONATE, ANHYDROUS	497-19-8	0-1
Dowicide 75	4080-31-3	0.05
Water	7732-18-5	97-100

Section 3. Hazards Identification

Physical State and Appearance Liquid. (Colorless.)

Emergency Overview CAUTION !

MAY CAUSE EYE BURNS.

MAY BE HARMFUL IF INHALED OR SWALLOWED.

MAY CAUSE SKIN IRRITATION.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (corrosive). May cause burns.

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation May be hazardous in case of inhalation.

Ingestion May be hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Medical Conditions

Additional information See Toxicological Information (section 11)

Repeated or prolonged exposure is not known to aggravate medical

Buffer pH 10.0 Solution (Colorless)

**Aggravated by
Overexposure:** condition.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product	Non-flammable.
Auto-ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: No. Risks of explosion of the product in presence of mechanical impact: No.
Fire Fighting Media and Instructions	Not applicable.
Protective Clothing (Fire)	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of acetic acid.

Buffer pH 10.0 Solution (Colorless)

Spill Kit Information No specific spill kit required for this product.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Do not get in eyes. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing (Pictograms)

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name	Exposure Limits
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SODIUM BICARBONATE	Not available.
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SODIUM CARBONATE,	Not available.
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ANHYDROUS	
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Dowicide 75	Not available.
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Water	Not available.
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Section 9. Physical and Chemical Properties

Odor Odorless.

Color Clear.

Physical State and Appearance Liquid. (Colorless.)

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH 10 [Basic.]

Boiling/Condensation Point The lowest known value is 99.9°C (211.8°F) (Water).

Point

Melting/Freezing Point May start to solidify at -0.1°C (31.8°F) based on data for: Water.

Point

Specific Gravity Not available.

Vapor Pressure Not available.

Buffer pH 10.0 Solution (Colorless)

Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	0.36 (Water) compared to (n-BUTYL ACETATE=1)
LogKow	Not available.
Solubility	Easily soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Slightly reactive to reactive with acids.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:

Sodium Bicarbonate	VZ0950000
Sodium Carbonate	VZ4050000
Dowicil 75	XX8450000
Water	ZC0110000

Toxicity	LD50: Not available. LC50: Not available.
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Chronic Effects on Humans	Not available.
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Acute Effects on Humans	Hazardous in case of eye contact (corrosive). May cause burns. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation. May be hazardous in case of ingestion.
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Synergetic Products (Toxicologically)	Not available.
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Irritancy	Draize Test: Not available.
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Sensitization	Not available.
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Carcinogenic Effects	This material is not known to cause cancer in animals or humans.
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Toxicity to Reproductive System	Not available.
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Teratogenic Effects

Teratogenic Effects	Not available.
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Mutagenic Effects	Not available.
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Section 12. Ecological Information

Ecotoxicity	Not available.
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BOD5 and COD	Not available.
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Buffer pH 10.0 Solution (Colorless)

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number Not available.

Treatment Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.
ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

Section 14. Transport Information

DOT Classification Not available.

TDG Classification Not available.

IMO/IMDG Classification Not available.

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water
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: SODIUM CARBONATE, ANHYDROUS

SARA 311/312 MSDS distribution – chemical inventory – hazard identification: SODIUM CARBONATE, ANHYDROUS : Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS E: Corrosive liquid.
CEPA DSL: SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required

Buffer pH 10.0 Solution (Colorless)

information.

International Regulations

EINECS

SODIUM BICARBONATE 205–633–8
SODIUM CARBONATE, ANHYDROUS
207–838–8
Dowicide 75 223–805–0
Water 231–791–2

DSCL (EEC)

This product is not classified according to the EU regulations.

International Lists

Australia (NICNAS): SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water

Japan (MITI): SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water

Korea (TCCL): SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water

Philippines (RA6969): SODIUM BICARBONATE ; SODIUM CARBONATE, ANHYDROUS ; Dowicide 75; Water

China: No products were found.

State Regulations

New Jersey: Buffer pH 10.0 Solution (Colorless)
California prop. 65: No products were found.

Section 16. Other Information

**National Fire
Protection
Association
(U.S.A.)**

**0
30
Health**

**Fire
Hazard
Reactivity**

**Specific
Hazard**

Changed Since Last Revision +

Notice to Reader

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Buffer pH 10.0 Solution (Colorless)
