

Buffer pH 10.0, Blue.

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Buffer pH 10.0, Blue.

Product Code 34170-151

Manufacturer EMD Chemicals Inc.

Effective Date 3/4/2003

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.

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 Solution.

Family

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
SODIUM CARBONATE, ANHYDROUS	497-19-8	0-1
SODIUM BICARBONATE	144-55-8	0-1
Patient Blue A	3486-30-4	0-1
Dowicide 75	4080-31-3	0.05
Water	7732-18-5	97-100

Section 3. Hazards Identification

Physical State and Liquid.

Appearance

Emergency CAUTION !

Overview MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE EYE IRRITATION.

Routes of Entry Eye contact. Inhalation. Ingestion.

Potential Acute Health

Effects

Eyes May be hazardous in case of eye contact (irritant).

Skin No known effect on skin contact; rinse with water for a few minutes.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion May be hazardous in case of ingestion.

Potential Chronic Health Effects

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

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Repeated or prolonged exposure is not known to aggravate medical

Aggravated by condition.

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Overexposure:

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.
Skin Contact	In case of contact, immediately flush skin with plenty of water. 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 May be combustible at high temperature.

Auto-ignition Temperature Not available.

Flash Points Not available.

Flammable Limits Not available.

Products of Combustion Not applicable.

Fire Hazards in Presence of Various Substances Non-flammable in presence of open flames, sparks and static discharge, of shocks, of heat, of oxidizing materials.

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 SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards Not available.

Special Remarks on Explosion Hazards Not available.

Explosion Hazards

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.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Spill Kit No specific spill kit required for this product.

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Information

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Do not ingest. 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.
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Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Not applicable.

Hands Not applicable.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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Product Name	Exposure Limits
SODIUM CARBONATE, ANHYDROUS	Not available.
SODIUM BICARBONATE	Not available.
Patient Blue A	Not available.
Dowicide 75	Not available.
Water	Not available.

Section 9. Physical and Chemical Properties

Odor	Odorless.
Color	Clear. Blue.
Physical State and Appearance	Liquid.
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).
Melting/Freezing Point	May start to solidify at -0.1°C (31.8°F) based on data for: Water.
Specific Gravity	Not available.
Vapor Pressure	Not available.
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.

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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. Non-reactive with oxidizing agents, reducing agents, combustible materials, organic materials.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:	Sodium Carbonate	VZ4050000
	Sodium Bicarbonate	VZ0950000
	Patent Blue A	DA4427950
	Dowicil 75	XX8450000
	Water	ZC0110000
Toxicity	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	May be hazardous in case of eye contact (irritant). May be hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Not available.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

Not available.

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**EPA Waste
Number
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. ALWAYS CONTACT 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 Not available.

Classification

ICAO/IATA Not available.

Classification

Section 15. Regulatory Information

**U.S. Federal
Regulations**

TSCA 8(b) inventory: SODIUM CARBONATE, ANHYDROUS

; SODIUM BICARBONATE ; Patient Blue A; 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

; Patient Blue A

SARA 311/312 MSDS distribution – chemical inventory – hazard

identification: SODIUM CARBONATE, ANHYDROUS

: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard;

Patient Blue A: Delayed (Chronic) Health Hazard

Not on TSCA list.

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) Not controlled under WHMIS (Canada).

CEPA DSL: SODIUM CARBONATE, ANHYDROUS

; SODIUM BICARBONATE ; Patient Blue A; 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 information.

**International
Regulations**

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EINECS	SODIUM CARBONATE, ANHYDROUS 207-838-8 SODIUM BICARBONATE (1:1) 205-633-8 Patient Blue A 222-476-0 Dowicil ®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 CARBONATE, ANHYDROUS ; SODIUM BICARBONATE ; Patient Blue A; Dowicide 75; Water Japan (MITI): SODIUM CARBONATE, ANHYDROUS ; SODIUM BICARBONATE ; Patient Blue A; Dowicide 75; Water Korea (TCCL): SODIUM CARBONATE, ANHYDROUS ; SODIUM BICARBONATE ; Patient Blue A; Dowicide 75; Water Philippines (RA6969): SODIUM CARBONATE, ANHYDROUS ; SODIUM BICARBONATE ; Patient Blue A; Dowicide 75; Water China: No products were found.
State Regulations	New Jersey: Buffer pH 10.0, Blue. California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection Association (U.S.A.)	0 00	Fire Hazard
	Health	Reactivity
		Specific Hazard

Changed Since Last
Revision +

Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.
