MATERIAL SAFETY DATA SHEET (MSDS)

MATERIAL SAFETY DATA SHEET

EM SCIENCE

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer....:

EM SCIENCE

A Division of EM Industries P.O. Box 70

480 Democrat Road Gibbstown, N.J. 08027 Hours: 24 hrs a day

Preparation Date.: 3/1/91

Information Phone Number.: 856-423-6300

Hours: Mon. to Fri. 8:30-5

Chemtrec Emergency Number: 800-424-9300

Catalog Number(s):

BX1562

Product Name:

Bromothymol Blue, 0.04% Solution

Synonyms:

None

Camical Family:

henylmethane Dye Solution

Formula:

C27H27Br2NaO5S in solution

Molecular Weight .:

646.39 (dye)

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Appr %	
34722-90-2	0.04%	
	99.96%	
		34722-90-2 0.04%

Approx. % as wt/vol

3. HAZARDS IDENTIFICATION

F RGENCY OVERVIEW

Haling care generally in keeping with safe laboratory practices is recommended.

Appearance:

Green liquid; at pH 6.0 yellow, at pH 7.6 blue

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:

Charmful effects indicated from available information. Handling care generally in keeping with safe laboratory practices is recommended.

Medical Cond. Aggravated by Exposure:

Data not available.

Routes of Entry:

Inhalation, ingestion

Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES

Emergency First Aid:

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15

mirutes.

lation: Remove to fresh air; give artificial respiration if

breathing has stopped.

Ingestion: If conscious, drink water and induce vomiting

immediately as directed by medical personnel. Never give anything

by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (F): Noncombustible Flammable Limits LEL (%): N/A Flammable Limits UEL (%): N/A

Extinguishing Media:

Use any suitable for adjacent material.

Fire Fighting Procedures:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards:

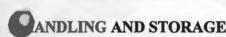
None indicated

CCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal

Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.



Handling & Storage:

Keep container closed. Store at controlled room temperature. Do not breathe solution mist. Do not get in eyes, on skin, or on clothing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:

Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves should be wom to prevent skin contact (Neoprene or equivalent) Safety glasses with side shields should be worn at all times.

Work/Hygenic Practices:

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

EXPOSURE GUIDELINES

OSHA-PEL:

TWA STEL CL
Component PPM MG/M3 PPM MG/M3 PPM MG/M3 Skin
Bromothymol Blue, Water Soluble

Water

ACGIH - TLV:

TWA STEL CL
Component PPM MG/M3 PPM MG/M3 PPM MG/M3 Skin
Bromothymol Blue, Water Soluble

Water

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

9 HYSICAL AND CHEMCIAL PROPERTIES

Boiling Point (C 760 mmHg): N/A

Melting Point (C): N/A

0 - 16 O - 14 O - 1) - N/A	
Specific Gravity $(H_2 0 = 1)$: N/A	
Vapor Pressure (mm Hg): N/A	
Percent Volatile by vol (%): N/A	
Vapor Density (Air = 1): N/A	
poration Rate (BuAc = 1): N/A sorubility in Water (%): Soluble	
Soluble (%): Soluble	
Appearance:	
Green liquid; at pH 6.0 yellow, at pH 7.6 blue	
Order inquies, at pri 0.0 years w, at pri 7.0 orde	
10. STABILITY AND REACTIVITY	
C4-1-19-4 V	
Stability: Yes	
Hazardous Polymerization:	
Does not occur	
boes not occur	
Hazardous Dagomnositions	
Hazardous Decomposition:	
Traces of bromine, SO _x , CO _x	
Conditions to Avoid:	
None indicated	
Materials To Avoid:	
() Water	
() Acids () Bases	
() Corrosives	
() Oxidizers	
(X) Other: none indicated	
11. TOXICOLOGICAL INFORMATION	
Toxicity Data	
None established.	
Toxicological Findings:	
None	
Cited in Registry of Toxic Effects of Chemical Substances (RTECS)	
12. DISPOSAL CONSIDERATIONS	
Waste Numbers:	

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.

1 RANSPORT INFORMATION

DOT Proper Shipping Name:

non-regulated

DOT ID Number:

none

14. REGULATORY INFORMATION

TSCA Statement:

This product is a "Mixture". The CAS numbers of all components are listed on the TSCA Inventory.

Component

SARA EHS SARA

CERCLA

(302)

EHS TPQ (lbs)

RQ (lbs)

Bromothymol Blue, Water Soluble

Water



Component

OSHA Floor List SARA 313 DeMinimis for SARA 313

(8)

Bromothymol Blue, Water Soluble

Water

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Hamability : 0
Reactivity : 0
Special Hazards :

Revision History: 9/29/86 6/30/87 8/10/88

= Revised Section

N/A = Not Available

N/E = None Establised

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