

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration



OMB No. 1218-0074
Expiration Date 05/31/86

CAS NO 1303-96-4

Section I

Manufacturer's Name

MICRO ESSENTIAL LABORATORY INC

Emergency Telephone Number

718-338-3618

Address (Number, Street, City, State, and ZIP Code)

4224 AVENUE H

Chemical Name and Synonyms

SODIUM BORATE, 10-HYDRATE

Trade Name and Synonyms

HYDRION BUFFER SALTS pH VALUES 8.00-11.00

BROOKLYN, NEW YORK 11210

Chemical Family

SALT

Formula

Na₂B₄O₇-10H₂O

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

% TLV (Units)

Alloys and Metallic Coatings

% TLV (Units)

Pigments

Base Metal

Catalyst

Alloys

Vehicle

Metallic Coatings

Solvents

Filler Metal Plus Coating or Core Flux

Additives

Others

Others

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

Section III - Physical Data

Boiling Point (°F)

Specific Gravity (H₂O=1)

MELTING POINT - STARTS TO MELT AT 75°C

1.73

Vapor Pressure (mm Hg.)

Percent Volatile by Volume (%)

Vapor Density (AIR=1)

Evaporation Rate

= 1)

Solubility in Water

ONE GRAM DISSOLVES IN 16 ML OF WATER.

Appearance and Odor

WHITE CRYSTALLINE POWDER.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

NON- FLAMMABLE

Flammable Limits

Let

Uel

Extinguishing Media

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards

Section V - Health Hazard Data

Threshold Limit Value

AIR=5 mg/M³

LD₅₀ RAT (ORAL)= 2660 mg/kg

LD₁₀ MAN (ORAL) = 709 mg/kg

Effects of Overexposure

SKIN AND EYE IRRITANT. HARMFUL IF SWALLOWED.

Emergency First Aid Procedures

IN CASE OF CONTACT, FLUSHED AFFECTED AREA WITH WATER. FLUSH EYES FOR 15 MINUTES

AND CONSULT A PHYSICIAN. IF SWALLOWED, INDUCE VOMITING IF VICTIM IS CONSCIOUS.

Section VI - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable XXXX	
		AVOID HIGH TEMPERATURES. LOSES 5H ₂ O AT 100°C AND 9H ₂ O AT 150 °C

Incompatibility (Materials to Avoid)

ACIDS AND ALKALOIDAL AND METALLIC SALTS

Hazardous Decomposition Products

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur XXXX	

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

SWEEP UP. CLEAN RESIDUAL WITH COLD WATER.

Waste Disposal Method

DISPOSE AT AN APPROVED DISPOSAL SITE.

Section VIII - Special Protection Information PERTAINS TO BULK POWDER HANDLING. !!!

Respiratory Protection (Specify Type)

IF DUSTY US NIOSH APPROVED RESPIRATOR.

Ventilation	Local Exhaust XXXX	Special
	Mechanical (General)	Other

Protective Gloves

RUBBER GLOVES

Eye Protection

SAFETLY GLASSES

Other Protective Equipment

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

STORE AT ROOM TEMPERATURE IN A DRY AREA. AVOID HIGH TEMPERATURES.

KEEP STORAGE CONTAINER TIGHTLY CLOSED.

Other Precautions