


Material Safety Data Sheet

	Red Bird	Health:	2 - Moderate
	S e r v i c e	Fire:	3 - Hazardous
		Reactivity:	0 - Minimal

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MSDS: 99386

Prep Date: 12/8/1999

Product: Bromophenol Blue Indicator

Revision: 2

Section 1 - Chemical Product and Company Identification

Product Chemical Name: A chemical mixture.

Chemical Formula:

CAS No:

Manufacturer: Red Bird Services PO Box 155 205 Western Avenue Osgood IN 47037

For Emergency, Call Chemtree 24 hours a day....800-424-9300

Catalog Number: B-202

Synonym: Not listed

Section 2 - Composition/Information on Ingredients

Ingredients	CAS Number	% wt or N
Ethanol	64-17-5	90
Denaturants	67-56-1	ca5
Bromophenol Blue	115-39-9	<0.1

OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
TWA	STEL	TWA	STEL	TWA	STEL	IDLH
260mg/m3	260mg/m3	250mg/m3	200mg/m3	262mg/m3	1048mg/m3	6000mg/m3
1900mg/m3	1900mg/m3	1880mg/m3	Not Estab.	Not Estab.	Not Estab.	3000ppm
Not Estab.	Not Estab.	Not Estab.	Not Estab.	Not Estab.	Not Estab.	Not Estab.

Section 3 - Hazard Information

Primary Entry Route: Inhalation, digestion, and skin contact

Target Organs: Eyes, skin, respiratory system, teeth, digestion track

Acute Effects: Irritation of nose, eyes and skin and respiratory system.

Inhalation: Irritant to dangerous

Eye: Irritant to dangerous

Skin: Irritant to dangerous

Ingestion: Irritant to dangerous

Carcinogenicity: Not considered to be

Medical Conditions: None listed

Chronic Effects: None listed

Section 4 - First Aid Measures

Inhalation: Move to fresh air, give oxygen if difficulty in breathing. Get medical attention.

Eye Contact: Flush with water for at least 15 minutes, including under eyelids. Get medical attention

Skin Contact: Flush with water for 15 minutes. If irritation persists, get medical attention.

Ingestion: Give water to drink to dilute material. Induce vomiting. Never give anything by mouth to anyone who is unconscious or convulsing. Get medical attention.

Special Precautions: NA

Section 5 - Fire Fighting Measures

Flash Point: N/A

Burning Rate: N/A

Auto Ignition: N/A
Temperature

LEL: N/A

UEL: N/A

Flammability
Classification: 3

Extinguishing

Media: Use that of surrounding fire

Unusual Fire/Explosion Hazards: Extremely flammable

Hazardous Combustion Products: Carbon oxides.

Instructions: None listed

Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (scba) with a full facepiece operated with pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: N/A

Small Spills: Collect or absorb with non-combustible material.

Large Spills: For containment; dike far ahead of the spill. Cover with dry earth, dry sand, or non-combustible material. Do not release to sewer.

Regulatory Requirement: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling

Precautions: Wear safety glasses, , safety gloves, personal protective clothing as required in section 8 in this MSDS.

Storage

Requirements: Store in closed container, cool, dry, in well-ventilated area away from heat and incompatible materials.

Regulatory

Requirement: See section 15 of this MSDS.

Section 8 - Exposure Controls/ Personal Protection

Engineering

Controls: N/A

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative

Controls: N/A

Respiratory

Protection: Seek professional advise prior to respirator selection and use, Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Select respirator based on it's suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels or storage tanks), wear an SCBA. Warning! Air purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective

Clothing/

Equipment: Wear chemically protective gloves, boots, aprons. Wear protective eyeglasses or chemical safety glasses. Per OSHA eye-and-face-protection regulations (29 CFR 1910.133).

Safety

Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated

Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Contact lenses are not safety protection; soft lenses absorb and all lenses concentrate exposure. Practice good personal hygiene after use of this material especially before eating, drinking, smoking, using the toilet or applying cosmetics. Never eat, drink, or smoke in work areas.

Section 9 - Physical and Chemical Properties

Physical State: liquid

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Odor Threshold: N/A

pH: NA

Vapor Pressure: CA 45

Boiling Point: CA 74c

Vapor Density: 1.6

Freezing/ Melting Point: NA

Formula Weight: N/A

Viscosity: N/A

Density: N/A

Refract Index: N/A

Spec Gravity: N/A

Surface Tension: N/A

% Volatile: NA

Appearance

Odor: colorless liquid with mild alcohol like odor.

Evaporation

Rate: NA

Water

Solubility: Complete

Section 10 - Stability and Reactivity

Stability: Stable

Polymerization: Cannot not occur

Chemical

Incompatibilities: Oxidizing agents, strong acids, nitrates, perchlorates, silver and potassium compounds.

Conditions to Avoid: excessive heat and incompatibles.

Hazardous

Decomposition

Products: Carbon oxides are formed

Section 11 - Toxicological Information

Eye Effect: Irritation

Skin Effect: Irritation

Acute

Inhalation

Effects: Irritation to dangerous

Acute Oral

Effects: Irritation to dangerous

Chronic Effects: See section 3 in this MSDS.

Carcinogenicity: Not listed

Mutagenicity: Not listed

Teratogenicity: Not listed

Section 12 - Ecological Information**Ecotoxicity:** N/A**Environmental
Fate:** N/A**Environmental
Transport:** N/A**Environmental
Degradation:** N/A**Soil
Absorption
Mobility:** N/A**Section 13 - Disposal Considerations****Disposal:** See section 6 of this MSDS.**Disposal
Regulatory
Requirements:** See section 15 of this MSDS.**Container
Cleaning and
Disposal:** N/A**Section 14 - Transport Information****Shipping Name:** Flammable liquid, N.O.S. (Ethanol)**Shipping Symbol:** N/A**Hazard Class:** 3**Id No:** UN1993**Packing Group:** II**Label:** Flammable**Special Provision:** N/A**Packaging
Exceptions:** N/A**Non-Bulk Packaging:** N/A**Bulk Packaging:** N/A**Quantity Limitations:****Passenger, Air, or Rail:** N/A**Cargo Aircraft Only:** N/A**Vessel Stowage Requirements:****Vessel Stowage:** N/A**Other:** N/A**Section 15 - Regulatory Information**

EPA Regulation:

RCRA hazardous waste number: Not listed (40 CFR 261.33)

RCRA hazardous Waste classification: (40 CFR 261.??): Not classified.

CERCLA hazardous Substance (40 CFR 302.4) listed/ specific peer RCRA, Sec 3001; CWA, Sec 311 (b)(4); CWA,,Sec 307(a),
CAA, Sec 12

CERCLA Reportable Quality (RQ)

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65):

SARA EHS (Extremely hazardous substance)(40 CFR 355): Not listed, Threshold Planning Quality (TPQ) Listed

OSHA Regulations:

Air contaminant (29 CFR 1910.1000, Table Z-1-A):

OSHA Specifically Regulated Substance(29 CFR 1910.1000)

State Regulations: STCC Listed,

DOT(40 CFR 172.101 Append.)

ACGIH Threshold Limit Value:

MAK Not listed

TSCA Not listed

ANNEX I Not listed

Section 16 - Other Information

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