**E8750 -03**

Effective: 03/09/92

**Evan's Blue**

J.T. BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

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**SECTION I - PRODUCT IDENTIFICATION**

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Product Name: Evan's Blue
Common Synonyms: Direct Blue 53, CI 23860
Chemical Family: Dyes, Stains, and Indicators
Formula: \( \text{C}_24\text{H}_{24}\text{N}_6\text{O}_{14}\text{S}_4\text{Na}_4 \)
Formula Wt.: 960.82
CAS No.: 314-13-6
NIOSH/RTECS No.: QJ6440000
Product Use: Laboratory Reagent
Product Codes: M372

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**PRECAUTIONARY LABELING**

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**BAKER SAF-T-DATA\* System**

![Health](2)  [Moderate]

![Flammability](1)  [Slight]

![Reactivity](1)  [Slight]

![Contact](2)  [Moderate]

**Laboratory Protective Equipment**

- Goggles
- Lab Coat
- Safety Glasses
- Proper Gloves

**U.S. Precautionary Labeling**

**CAUTION!**

MAY CAUSE IRRITATION.
Avoid contact with eyes, skin, clothing. Keep in tightly closed container. Wash thoroughly after handling.

Continued on Page: 2
E8750 -03
Effective: 03/09/92

International Labeling

Toxic by inhalation, in contact with skin and if swallowed. Possible risks of irreversible effects.
Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: Orange (general storage)

SECTION II - COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evan's Blue</td>
<td>314-13-6</td>
<td>90-100</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

Boiling Point: N/A
Melting Point: N/A
Specific Gravity: N/A
(H2O=1)
Solubility(H2O): Appreciable (>10%)

pH: N/A
Odor Threshold (ppm): N/A
Coefficient Water/Oil Distribution: N/A
Appearance & Odor: Blue crystals.

Vapor Pressure (mmHg): N/A
Vapor Density (air=1): N/A
Evaporation Rate: N/A
% Volatiles by Volume: 0 (21°C)
Physical State: Solid

Continued on Page: 3
E8750 - 03
Effective: 03/09/92
Evan's Blue

Page: 3
Issued: 07/10/93

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A
Autoignition Temperature: N/A
Flammable Limits: Upper - N/A Lower - N/A
Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards
None identified.

Toxic Gases Produced
sulfur dioxide, oxides of nitrogen, carbon monoxide, carbon dioxide

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established
Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): Not Established
Toxicity of Components
No information is available
Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No
Carcinogenicity
None identified.
Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: none identified
SKIN CONTACT: irritation
EYE CONTACT: irritation
SKIN ABSORPTION: none identified
INGESTION: none identified
CHRONIC EFFECTS: none identified

Target Organs
none identified

Medical Conditions Generally Aggravated by Exposure
none identified

Primary Routes of Entry
skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, immediately induce vomiting.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: In case of contact, flush skin with water.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS
Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No
E8750 - 03
Effective: 03/09/92

Evan's Blue

Section V - Health Hazard Data (Continued)

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: Yes

Section VI - Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions to Avoid: None documented

Incompatibles: Strong oxidizing agents, strong reducing agents

Decomposition Products: Oxides of sulfur, oxides of nitrogen, carbon monoxide, carbon dioxide

Section VII - Spill & Disposal Procedures

Steps to be Taken in the Event of a Spill or Discharge

Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

Section VIII - Industrial Protective Equipment

Ventilation: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

Eye/Skin Protection: Safety goggles, uniform, rubber gloves are recommended.
E8750 - 03
Effective: 03/09/92
Issued: 07/10/93

Evan's Blue

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SNF-T-DATA* Storage Color Code: Orange (general storage)

Storage Requirements

Keep container tightly closed. Suitable for any general chemical storage area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

MARINE POLLUTANTS: No

AIR (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

U.S. CUSTOMS HARMONIZATION NUMBER: 32041200004

N/A = Not Applicable or Not Available
N/E = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

Continued on Page: 7
E8750 -03
Effective: 03/09/92

Evan's Blue

-- LAST PAGE --

0020