

Health & Safety data sheet
According to EC Directive 91/155/EC and following amendments

Date of issue: 20 January 2008.

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name:

- Bromophenol Blue Indicator.

Application:

- Indicator for titration analysis.

Manufacturer identification:

Hanna Instruments Italia s.r.l.
Viale delle Industrie, 12/A
35010 Villafranca Padovana, Italy
tel.: +39-049-9070211

Emergency Telephone n. °:

No hazardous product.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Aqueous solution.

SECTION 3 - HAZARD IDENTIFICATION

No hazardous product as specified in Directive 67/548/EEC.

SECTION 4 - FIRST AID MEASURES

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off with water and soap.
- **After eye contact** : rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.
- **After swallowing** : wash out mouth with plenty of water, provided person is conscious. Obtain medical attention if feeling unwell.

SECTION 5 – FIRE-FIGHTING MEASURES

- **Suitable extinguishing media**
 - Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
- **Special risks**
 - Specific Hazard(s): Emits toxic fumes under fire conditions.
- **Special protective equipment for firefighters**
 - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Procedure(s) of personal precaution(s)**
 - Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of vapors/aerosols.
- **Methods for cleaning up**
 - Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

SECTION 7 - HANDLING AND STORAGE

- **Handling:**
 - Avoid generation of vapors/aerosols.
 - Do not inhale substance.
- **Storage:**
 - Tightly closed.
 - In a well-ventilated place at +15 to +25 °C.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering controls**
 - Safety shower and eye bath.
- **Personal protective equipment:**
 - Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

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- **Respiratory protection:**
 - Required when vapors/aerosols are generated. Work under hood.
- **Protective gloves:**
 - Rubber or plastic
- **Eye protection:**
 - Goggles or face mask
- **Industrial hygiene:**
 - Change contaminated clothing. Wash hands thoroughly after working with substance.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

- | | | | |
|------------------------------|---------------|---------------------------|--------------------------|
| • Appearance | : dark liquid | • Melting point | : NA |
| • Odor | : odorless | • Boiling point | : ~100 °C |
| • Solubility in water | : soluble | • pH value at 20°C | : 4.2 |
| | | • density at 20°C | : 1.00 g/cm ³ |

SECTION 10 - STABILITY AND REACTIVITY

- | | |
|--|--|
| • Conditions to be avoided: <ul style="list-style-type: none"> - Heating. | • Substances to be avoided: <ul style="list-style-type: none"> - The generally known reaction partners of water. |
| • Hazardous decomposition products: <ul style="list-style-type: none"> - Carbon monoxide, Carbon dioxide, Sulfur oxides, Hydrogen bromide gas. | • Hazardous Polymerization: <ul style="list-style-type: none"> - Will not occur. |

SECTION 11 - TOXICOLOGICAL INFORMATION*Acute toxicity*

Quantitative data on the toxicity of this product are not available.

Further toxicological information

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

Further data

The product should be handled with the care usual when dealing with chemicals.

SECTION 12 - ECOLOGICAL INFORMATION*Ecotoxic effects:*

Quantitative data on the ecological effect of this product are not available.

Further ecological data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13 - DISPOSAL CONSIDERATIONS

- **Waste disposal:**
 - Can be safely disposed off as an ordinary refuse.

SECTION 14 - TRANSPORT INFORMATION

- | | | |
|-------------------------|-------------------|-------------------|
| • Land transport | ADR/RID | : 9/UN 3316/PGIII |
| | Name | : CHEMICAL KIT |
| • Sea transport | IMDG | : 9/UN 3316/PGIII |
| | Name | : CHEMICAL KIT |
| | Marine pollutant: | no |
| • Air transport | ICAO/IATA | : 9/UN 3316/PGIII |
| | Name | : CHEMICAL KIT |

These transport data apply to the entire pack!

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SECTION 15 - REGULATORY INFORMATION**Labeling according to EC Directives:**

Symbol: -
R-phrases: -
S-phrases: -
Contains: -

SECTION 16 - OTHER INFORMATION

- **Supersedes edition of** : / (1st edition)
- **Legend** : NA Not Applicable
ND Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.