

# Material Safety Data Sheet

## Indicator Solution

**NISUS CORPORATION**  
215 DUNAVANT DRIVE  
ROCKFORD, TN 37853  
  
1-800-264-0870

**DATE PREPARED:..... 05/25/00**  
**PREPARED BY:.. Regulatory Dept.**  
**REVISION DATE:... 05/26/00**  
**EMERGENCY PHONE # INFOTRAC**  
**1-800-535-5053 24 HRS DAILY**

**PRODUCT NUMBER:..971098**  
**PRODUCT NAME: Indicator**  
**CUSTOMER NUMBER:...**  
**DISTRIBUTED BY:.....**  
**DISTRIBUTOR ADDRESS.....**

### SECTION I - IDENTIFICATION

**PRODUCT NAME:..**  
**SYNONYMS:...** Boron Test Indicator  
Solution  
**CHEMICAL FAMILY:** Indicator test  
solution

**PROPER SHIPPING NAME:**  
NOI Non-Hazardous

**HMIS HEALTH:..... 2**  
**HMIS FLAMMABILITY:.. 0**  
**HMIS REACTIVITY:..... 0**  
**HMIS PERSONAL**  
**PROTECTION.....B**

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Chloroform	0.4%	67-63-3	2 ppm.
Pyrocathol violet	0.2%	115-41-3	Not Listed

### SECTION III - PHYSICAL DATA

**APPEARANCE:.....** Clear rust brown liquid  
**EVAPORATION RATE: <1**  
**SOLUBILITY IN WATER:..** Complete @  
25 Degrees C.

**FREEZING POINT:...** 32 Degrees F.  
**PH:.....** 2.5  
**VAPOR PRESSURE:..** Nil

**SPECIFIC GRAVITY:.....** 1.00  
**BOILING POINT:.....** 212 Degrees F.  
**VAPOR DENSITY(AIR=1):** Not Applicable  
**% VOL:.....** >90

### SECTION IV - FIRE AND EXPLOSION DATA

**FLASHPOINT:...** Not Applicable  
**UPPER EXPLOSION LIMIT:..** NA  
**SPECIAL FIRE FIGHTING PROCEDURES :** Wear full protective gear including self-contained breathing apparatus. Keep heated containers cool with water spray.  
**UNUSUAL FIRE /EXPLOSION HAZARDS:..** Heat may cause product decomposition. See Hazardous Decomposition Products in Section V.

**METHOD:...** Not Applicable  
**EXTINGUISHING MEDIA:...** Water, Carbon Dioxide, Dry Chemical or Foam  
**LOWER EXPLOSION LIMIT:..** NA

### SECTION V - REACTIVITY DATA

**STABILITY:.....** Stable  
**HAZARDOUS POLYMERIZATION:...** Will not occur  
**INCOMPATIBILITY:..** Strong acids, strong alkalis and oxidizing or reducing agents.  
**DECOMPOSITION:..** Chloroform @0.4% can decompose to Hydrogen Chloride, chlorine and/or small amounts of phosgene. At low concentrations and small container sizes, hazardous levels of decomposition products are not anticipated.

### SECTION VI - HEALTH DATA

**THRESHOLD LIMIT VALUE:..** Not established for mixture.  
**OSHA PEL:.....** Not established for mixture.  
**LISTED CARCINOGEN:.....** Chloroform, in the indicator solution is listed as a possible or suspect carcinogen by NTP and OSHA. Listed as a group 2B carcinogen by IARC.  
**INHALATION:.....** None expected due to small levels of chloroform and small package size.  
**INGESTION:.....** Ingestion may cause digestive irritation.  
**EYES:...** Any contact with eyes causes irritation.  
**SKIN(DERMAL)...** No harmful effects expected.  
**MEDICAL CONDITIONS AGGRAVATED:...** Pre-Existing eye or skin disorders.

### SECTION VII FIRST AID

**BREATHING(INHALATION):..** If respiratory irritation occurs, remove victim to fresh air. Get prompt medical attention if irritation worsens or persists.  
**SWALLOWING(INGESTION):..** Immediately drink large amounts of milk or water to dilute. DO NOT INDUCE VOMITING. Get immediate medical attention. Never give anything by mouth to an unconscious person.  
**NOTE TO PHYSICIAN:..** Emesis is the recommended treatment strategy for ingestion of this product. If necessary, syrup of IPECAC may be utilized to facilitate regurgitation.

**EYES:.....** Immediately flush eyes with running water for at least 15 minutes. Remove and discard contaminated contact lenses. Get immediate medical attention. If possible, continue to flush eyes with running water until medical aid is received.  
**SKIN(DERMAL):..** No harmful effects expected; merely rinse off skin.

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**SECTION VIII EMPLOYEE PROTECTION**

**RESPIRATORY PROTECTION:**..... None normally required.  
**PROTECTIVE CLOTHING:**..... Chemical splash glasses, splash goggles or full face shield as necessary to prevent contact.

**ADDITIONAL MEASURES:**.... Eyewash facilities suggested.  
**VENTILATION:**..... None normally required due to product characteristics.

**SECTION IX - SPILL AND DISPOSAL DATA**

**SPILL:**..... Recover as much material as possible before flushing remaining residues to sanitary sewer with copious amounts of water.

**WASTE DISPOSAL:**.... Dispose of all wastes according to all federal, state and local legislation.

**SECTION XI - OTHER REGULATORY INFORMATION**

**RCRA STATUS:**..... Not Applicable  
**TSCA STATUS:**..... All ingredients of this product are listed on the TSCA inventory.  
**SARA(SECTION 302) Extremely Hazardous Substance:**.. No

**SARA SECTION 312:**.... Immediate (Acute) Health Hazard,  
**SARA SECTION 313 Toxic Release Inventory Reporting:**.. none present

**SECTION XII - PRECAUTIONARY LABEL STATEMENTS**

**WARNING:**..... **CAUTION:** KEEP OUT OF REACH OF CHILDREN. For Industrial and Institutional Use Only.

**SECTION XIII - ADDITIONAL INFORMATION**

**ADDITIONAL:**.. Use Product only as recommended on the label and literature.  
**DISCLAIMER:**.. **NOTICE:** The information contained in this MSDS is believed to be correct as of the date prepared. No representations or warranties, either express or implied, of the merchantability, fitness for a particular purpose, or of any other nature are made with respect to information concerning the product referred to in this MSDS.

**PRODUCT NUMBER:**.. **971098**

**BAR CODE:**.....

# Material Safety Data Sheet

## Buffer Solution

**NISUS CORPORATION**  
215 DUNAVANT DRIVE  
ROCKFORD, TN 37853  
  
1-800-264-0870

DATE PREPARED:..... 08/15/95  
PREPARED BY:.. Regulatory Dept.  
REVISION DATE:.... 03/17/99  
EMERGENCY PHONE # INFOTRAC  
1-800-535-5053 24 HRS DAILY

PRODUCT NUMBER:..971198  
PRODUCT NAME: Buffer  
CUSTOMER NUMBER:....  
DISTRIBUTED BY:.....  
DISTRIBUTOR ADDRESS:.....

### SECTION I - IDENTIFICATION

**PRODUCT NAME:.**  
**SYNONYMS:...** Boron Indicator  
Buffer Solution  
**CHEMICAL FAMILY:** Buffered  
Alkalis

**PROPER SHIPPING NAME:**  
NOI Non-Hazardous

**HMS HEALTH:.....** 1  
**HMS FLAMMABILITY:..** 0  
**HMS REACTIVITY:.....** 0  
**HMS PERSONAL PROTECTION:.....**A

### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	PEL
Sodium Phosphate, Dibasic	<2	7558-79-4	Not Listed
Potassium Phosphate, Monobasic	<1	7778-77-0	Not Listed

### SECTION III - PHYSICAL DATA

**APPEARANCE:.....** Clear liquid.  
**EVAPORATION RATE:** <1  
**SOLUBILITY IN WATER:..** Complete @  
25 Degrees C.

**FREEZING POINT:...** 32 Degrees F.  
**PH:.....** 8-9  
**VAPOR PRESSURE:..** Nil

**SPECIFIC GRAVITY:.....** 1.00  
**BOILING POINT:.....** 212 Degrees F.  
**VAPOR DENSITY(AIR=1):** Not Applicable  
**% VOL:.....** >90

### SECTION IV - FIRE AND EXPLOSION DATA

**FLASHPOINT:...** Not Applicable  
**UPPER EXPLOSION LIMIT:..** NA  
**SPECIAL FIRE FIGHTING PROCEDURES :** Wear full protective gear including self-contained breathing apparatus. Keep heated containers cool with water spray.  
**UNUSUAL FIRE /EXPLOSION HAZARDS:..** Heat may cause product decomposition. See Hazardous Decomposition Products in Section V.

**METHOD:...** Not Applicable  
**EXTINGUISHING MEDIA:...** Water, Carbon Dioxide, Dry Chemical or Foam  
**LOWER EXPLOSION LIMIT:..** NA

### SECTION V - REACTIVITY DATA

**STABILITY:.....** Stable  
**HAZARDOUS POLYMERIZATION:...** Will not occur  
**INCOMPATIBILITY:..** Strong acids, strong alkalis and oxidizing or reducing agents.  
**DECOMPOSITION:..** Oxides of Phosphorus

### SECTION VI - HEALTH DATA

**THRESHOLD LIMIT VALUE:..** Not established for mixture.  
**LISTED CARCINOGEN:.....** No ingredients listed by NTP, IARC or OSHA Subpart Z.  
**OSHA PEL:.....** Not established for mixture.  
**INHALATION:....** Inhaling dusts, fumes and/or mists may cause respiratory irritation.  
**INGESTION:.....** Ingestion may cause digestive irritation.  
**SKIN(DERMAL)...** No harmful effects expected.  
**EYES:...** Any contact with eyes causes irritation.  
**MEDICAL CONDITIONS AGGRAVATED:...** Pre-Existing eye or skin disorders.

### SECTION VII FIRST AID

**BREATHING(INHALATION):..** If respiratory irritation occurs, remove victim to fresh air. Get prompt medical attention if irritation worsens or persists.  
**SWALLOWING(INGESTION):..** Immediately drink 2 glasses of milk or water to dilute and induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.  
**NOTE TO PHYSICIAN:..** Emesis is the recommended treatment strategy for ingestion of this product. If necessary, syrup of IPECAC may be utilized to facilitate regurgitation.

**EYES:.....** Immediately flush eyes with running water for at least 15 minutes. Remove and discard contaminated contact lenses. Get immediate medical attention. If possible, continue to flush eyes with running water until medical aid is received.  
**SKIN(DERMAL):..** No harmful effects expected; merely rinse off skin.

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**SECTION VIII EMPLOYEE PROTECTION**

**RESPIRATORY PROTECTION:**..... None normally required.  
**PROTECTIVE CLOTHING:**..... Chemical splash glasses, splash goggles or full face shield as necessary to prevent contact.

**ADDITIONAL MEASURES:**.... Eyewash facilities suggested.  
**VENTILATION:**..... None normally required due to product characteristics.

**SECTION IX - SPILL AND DISPOSAL DATA**

**SPILL:**..... Recover as much material as possible before flushing remaining residues to sanitary sewer with copious amounts of water.

**WASTE DISPOSAL:**.... Dispose of all wastes according to all federal, state and local legislation.

**SECTION XI - OTHER REGULATORY INFORMATION**

**RCRA STATUS:**..... Not Applicable  
**TSCA STATUS:**..... All ingredients of this product are listed on the TSCA inventory.  
**SARA (SECTION 302) Extremely Hazardous Substance:**.. Not Regulated

**SARA SECTION 312:**... Immediate (Acute) Health Hazard,  
**SARA SECTION 313 Toxic Release Inventory Reporting:**.. none present

**SECTION XII - PRECAUTIONARY LABEL STATEMENTS**

**WARNING:**..... **CAUTION: KEEP OUT OF REACH OF CHILDREN.** For Industrial and Institutional Use Only.

**SECTION XIII - ADDITIONAL INFORMATION**

**ADDITIONAL:**.. Use Product only as recommended on the label and literature.  
**DISCLAIMER:**.. **NOTICE:** The information contained in this MSDS is believed to be correct as of the date prepared. No representations or warranties, either express or implied, of the merchantability, fitness for a particular purpose, or of any other nature are made with respect to information concerning the product referred to in this MSDS.

**PRODUCT NUMBER:**.. **971198**

**BAR CODE:**.....