Pro Advantage™ Fecal Occult Blood Test Developer

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Pro Advantage™ Fecal Occult Blood Test Developer Solution

PRODUCT USE: For In Vitro Diagnostic Use. See product literature for details.

MANUFACTURER: National Distribution & Contracting, Inc.
407 New Sanford Road
La Vergne, TN 37086

Telephone: (800) 774-9110
Website: www.ProAdvantagebyNDC.com

SECTION 2: COMPOSITION

<table>
<thead>
<tr>
<th>% wt</th>
<th>IUPAC</th>
<th>SYNONYMS</th>
<th>MOLECULAR FORMULA</th>
<th>IDENTIFIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>&lt;20 %</td>
<td>Oxidane</td>
<td>H₂O</td>
<td>CAS 7732-18-5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydrogen oxide, Dihydrogen monoxide, Hydrogen monoxide, Dihydrogen oxide &amp; Hydrogen hydroxide</td>
<td></td>
<td>PUBCHEM 962</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydrogen peroxide, Dioxidane (IARC) carcinogenic classification: Group 3 not classifiable as to its carcinogenicity to humans.</td>
<td></td>
<td>EC 231-791-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethanol</td>
<td>C₂H₆O</td>
<td>CAS 7722-84-1</td>
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<tr>
<td></td>
<td></td>
<td>Ethyl alcohol, Ethyl hydrate, Ethyl hydroxide, Ethylic alcohol, Ethylol, Hydroxyethane, Methyl Carbinol</td>
<td></td>
<td>PUBCHEM 784</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDOUS INGREDIENTS

OSHA PEL | ACGIH TLV | DFG MAK | NIOSH | Classification: 1999/45/EC & 67/548 EEC | Labeling | R & S Phrases |
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide (stabilized)</td>
<td>1 ppm TWA; 1.4 mg/m³ TWA</td>
<td>1 ppm TWA</td>
<td>1 ppm; 1.4 mg/m³ TWA (IDLH); 75 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU Index: 008-003-00-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU Classification: Oxidant (O) Corrosive (C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol</td>
<td>1000 ppm TWA; 1880 mg/m³ TWA</td>
<td>500 ppm, 980 mg/m³</td>
<td>1000 ppm; 1900 mg/m³ TWA (IDLH); 3,300 ppm (LEL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU Index: 603-002-00-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU Classification: Highly Flammable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

EYES: If product is splashed in eyes, wash eyes under gently running water for 15 minutes or longer, making sure that the eyelids are held open. Obtain medical attention.

---

1 8-20% soln.
2 R8 Contact with combustible material may cause fire; R34 Causes burns.
3 S3 Keep in a cool place; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S28 After contact with skin, wash immediately with plenty of water; S36/37/39 Wear suitable protective clothing, gloves and eye/face protection; S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
4 American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV); Appendix A4 - Not Classifiable as a Human Carcinogen (Listed under Ethanol)
5 R11 Highly Flammable; R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
6 S16 Keep away from sources of ignition – No Smoking; S36/37 Wear suitable protective clothing and gloves.
Pro Advantage™ Fecal Occult Blood Test Developer

SKIN: Flush contact area with cold water. Wash affected area with soap and water … rinse thoroughly. Skin that has been bleached white will return to normal color within a few hours. If irritation persists, contact a physician.

INGESTION: If fully conscious, lucid and not convulsing, victim should drink as much water as possible. Contact a physician or poison control center immediately. Do not induce vomiting unless instructed to do so by a certified medical authority.

INHALATION: Move victim into fresh air. If breathing is labored or victim loses consciousness contact a physician immediately. If breathing stops, administer artificial respiration; use oxygen as required. Contact a physician immediately.

SECTION 5: FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Pro Advantage™ Fecal Occult Blood Test Developer: 21 °C (69.8 °F)
Ethyl Alcohol 56 °F (13 °C) Tag Closed Cup
60 °F (16 °C) Tag Open Cup
Peroxide Not Combustible
Water N/A

HAZARD CLASSIFICATION:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>SPECIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>10</td>
<td>OX</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA: Use water, carbon dioxide, dry chemicals or universal-type foams applied as per manufacturer's recommendations.

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing. Use self-contained breathing apparatus (NIOSH Certified). Do not use oxidizable sorbents. Vapors form explosive mixtures with air. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxygen evolution from decomposition of hydrogen peroxide will support combustion and may serve to intensify a fire. (Hydrogen Peroxide concentration is nominal)

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

If material is released or spilled, wear all appropriate protective equipment described in Section 8 before cleaning up the spill or handling contaminated material. Wipe up the spill and dispose of the contaminated material. Avoid creating aerosols or dust while cleaning up a spill.

After the material has been picked up and contained in a bag, wash the spill site with distilled or deionized water.

Personal Precautions Use good laboratory procedures; avoid eye and skin contact.

Spill and Leak Procedures Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

Environmental Precautions Contain spill to prevent migration.

SECTION 7: HANDLING & STORAGE

HANDLING & STORAGE: Store at room temperature (15°-30°C or 59°-86°F).

OTHER PRECAUTIONS: For in vitro diagnostic use. Do not substitute reagents from kits from other manufacturers. You may interchange slides & reagent from Pro Advantage™ Fecal Occult Blood Test kits as long as they are within the expiration date; except with the “Easy Readability” Product line. Patient specimens and all materials coming into contact with them should be handled as if capable of transmitting infections and disposed of with proper precautions. Replace bottle closure when Pro Advantage™ Fecal Occult Developer Solution is not being used. This will diminish alcohol vapors and reduce the risk of developer contamination. To maintain efficacy, store according to the instructions in the product labeling.

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7 Exposure would cause irritation with only minor residual injury (e.g., acetone)
8 Flammability depends on the ratio of water and ethanol. The very common 95% aqueous ethanol has a flash point of 55°F. M. Hristova, D. Dangaliev, D. Popova; Estimation of Water-Alcohol Mixture Flash Point; Journal of the University of Chemical Technology and Metallurgy, 45, 1, 2010, 19-24.
9 Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur (e.g., diesel fuel) has a flash point between 38°C (100°F) and 93°C (200°F).
10 Normally stable, but can become unstable at elevated temperatures and pressures (e.g. propene)
**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**VENTILATION:** Well Ventilated

**RESPIRATORY PROTECTION:** Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional. Use a surgical mask or similar respiratory protection to cover nose, mouth and mucous membranes.

**EYE PROTECTION:** Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

**SKIN PROTECTION:** Wear Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact and especially cover any cuts, abrasions or skin lesions. Dispose of gloves as biohazardous material. Wash hands thoroughly after removing gloves. Use extreme caution with any sharp object to avoid percutaneous exposure to material. Wear outer protective garments such as a lab coat or gown. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N/A

**SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS**

- **Boiling Point:** 78 °C-81 °C
- **Freezing Point:** < -20 °C
- **Specific Gravity (H₂O = 1):** 0.86 @ 20 °C
- **Vapor Pressure (mm Hg):** 40 mm Hg @ 25 °C
- **Vapor Density (AIR = 1):** 1.6
- **Evaporation Rate (Butyl Acetate = 1):** 2.5
- **Solubility in Water:** Completely Miscible
- **Appearance and Odor:** Clear & Colorless liquid w/ Characteristic Alcohol Scent

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY (3 yrs.):** Is generally considered to be stable when stored according to approved labeling except when exposed to excessive heat, sparks, open flame, other sources of ignition and incompatible chemicals.

**CONDITIONS TO AVOID:** Store at room temperature (15°-30°C or 59°-86°F). Do not refrigerate or freeze. Protect from heat, humidity, and light, ignition sources & incompatible materials.

**INCOMPATIBILITY (MATERIAL TO AVOID):**
- Concentrated nitric and sulfuric acids, strong oxidizing agents. Excessive heat.
- Rust, dirt, dust and inert particulate solids in general. Iron, copper and heavy metals, their salts and alloys. Ultra violet light may induce photo decomposition.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** NONE; when stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

**HAZARDOUS POLYMERIZATION:** NONE EXPECTED

**SECTION 11: TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:**

<table>
<thead>
<tr>
<th>Ethyl Alcohol</th>
<th>Hydrogen Peroxide</th>
<th>Guaiac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation LC50 Rat</td>
<td>Oral LD50 Rat</td>
<td>Dermal LD50 Rat</td>
</tr>
<tr>
<td>124.7 mg/L 4 h</td>
<td>7060 mg/kg</td>
<td>N/A</td>
</tr>
<tr>
<td>2 mg/L 4 h</td>
<td>801 mg/kg</td>
<td>4060 mg/kg</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Primary Routes of Exposure**
The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.

**Potential Effects of Acute Exposure**
May cause irritation or burning of skin and eyes by contact. Inhalation and ingestion of large volumes may cause burning of mucous membrane, respiratory irritation, and central nervous system depression.

**Potential Effects of Chronic Exposure**
Chronic exposure may result in effects similar to those described for acute exposure. Frequent or long-term contact may dry out the skin resulting in dermatitis. Repeated exposure may result in allergic reactions.

**Symptoms of Overexposure**
Symptoms of overexposure may include: throat irritation and coughing; dry, red, cracked skin; red irritated eyes; headache, drowsiness, dizziness, stupor; and convulsions.

**Carcinogenicity**
No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 67/548/EEC Annex I.
**Irritation/Sensitization**
May cause sensitization by inhalation and skin contact.

**Other Effects**
None identified.

**Conditions Aggravated by Exposure**
Individuals with eye and skin disorders may find these conditions aggravated by exposure to this product. Individuals with eye, kidney, liver and cardiovascular, nervous and respiratory system disorders may find these conditions aggravated by exposure to this product.

**Mutagenicity**
None identified.

**Reproductive Toxicity**
Reproductive effects have been reported in animal studies.

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

**Fresh Water Species**
- **Ethyl Alcohol**
  - 96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]
- **Hydrogen Peroxide**
  - 96 Hr LC50 Pimephales promelas: 16.4 mg/L; 96 Hr LC50 Lepomis macrochirus: 18-56 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]

**Microtox**
No information available.

**Water Flea**
- **Ethyl Alcohol**
  - 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [static]
- **Hydrogen Peroxide**
  - 24 Hr EC50 Daphnia magna: 7.7 mg/L; 48 Hr EC50 Daphnia magna: 18 - 32 mg/L [static]

**Fresh Water Algae**
- **Hydrogen Peroxide**
  - 72 Hr EC50 Chlorella vulgaris: 2.5 mg/L

**Biodegradability**
No information available.

**Bioaccumulation**
No information available.

**Mobility**
No information available.

**Other Adverse Effects**
No information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

**WITH SPECIMEN:** Patient specimens and all materials coming into contact with them should be handled as if capable of transmitting infections and disposed of with proper precautions.

### SECTION 14: TRANSPORT INFORMATION

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Pro Advantage™ Fecal Occult Blood Test Developer</td>
<td>SDS DATE: 07/22/2014</td>
<td>May cause sensitization by inhalation and skin contact.</td>
<td>None identified.</td>
<td>Individuals with eye and skin disorders may find these conditions aggravated by exposure to this product. Individuals with eye, kidney, liver and cardiovascular, nervous and respiratory system disorders may find these conditions aggravated by exposure to this product.</td>
<td>None identified.</td>
<td>Reproductive effects have been reported in animal studies.</td>
<td>Toxic to fish and other water organisms.</td>
<td>No information available.</td>
<td>3</td>
<td>None</td>
<td>None</td>
<td>173.150; None</td>
<td>3</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>3</td>
<td>None</td>
</tr>
</tbody>
</table>
SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): None
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None
311/312 HAZARD CATEGORIES: None
313 REPORTABLE INGREDIENTS: Not Reportable

EU REGULATIONS

WATER HAZARD CLASS (GERMANY): WGK 1, low water endangering

CANADA

THIS PRODUCT IS EXEMPT FROM WHMIS LABEL AND SDS REQUIREMENTS.

INGREDIENTS ON INGREDIENT DISCLOSURE LIST: ETHYL ALCOHOL & HYDROGEN PEROXIDE

INGREDIENTS WITH UNKNOWN TOXICOLOGICAL PROPERTIES: Product is Exempt.

Some hazardous ingredients listed in Section 15 are below OSHA’s and WHMIS’ 1.0% w/w (0.1% for carcinogens) or EU’s ingredient specific concentrations required for reporting in Section 2.

SECTION 16: OTHER INFORMATION

Labeling: This package conforms to 49 CFR 173.4
NC Poison Control Center: 1-800-672-1697

DISCLAIMER: The information provided in this Material Data Safety Sheet has been compiled from our experience and data presented in various technical publications. An MSDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be correct, however, it is the user’s responsibility to determine the suitability of this information for the adoption of safety precautions deemed necessary. NDC, Inc. shall not be held liable for any damage resulting from handling or from contact with the product described in this SDS. We reserve the right to update SDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.
SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Pro Advantage™ Fecal Occult Blood Test (FOBT) (GUAIAc SLIDES)
SYNONYMS: FOBT/gFOBT

PRODUCT DESCRIPTION: Manufactured by impregnation of Guaiac gum, Gum guaiac, Gum guaiacum, Guaiacum. Fecal occult blood (FOB) refers to blood in the feces that is not visibly apparent. A fecal occult blood test (FOBT) checks for hidden (occult) blood in the stool (feces), more specifically stool guaiac tests look for heme.

Stool guaiac test for fecal occult blood (gFOBT): - The stool guaiac test involves smearing some feces on to some absorbent paper that has been treated with a chemical. Hydrogen peroxide is then dropped on to the paper; if trace amounts of blood are present, the paper will change color in one or two seconds. This method works as the heme component in hemoglobin has a peroxidase-like effect, rapidly breaking down hydrogen peroxide. In some settings such as gastric or proximal upper intestinal bleeding the guaiac method may be more sensitive than tests detecting globin because globin is broken down in the upper intestine to a greater extent than is heme. Optimal clinical performance of the stool guaiac test depends on preparatory dietary adjustment.

Guaiac gum: The resin from the wood of Guaiacum officinale L., or of Guaiacum sanctum L., (Fam. Zygophyllaceae), consisting of approximately 70% alpha- and beta-guaiaconic acids, 10% guaiaretic acid, and 15% guaiac beta-resin and small quantities of guaiac yellow, vanillin, etc. Irregular lumps enclosing fragments of vegetable tissues; or large, nearly homogeneous masses and occasionally more or less rounded or ovoid tears; externally, it is brownish black to dusky brown, acquiring a greenish colour on long exposure, the fractured surface having a glassy lustre, the thin pieces being transparent and varying in color from brown to yellowish orange; the powder is moderate yellow brown, becoming olive brown on exposure to air. It has a mild balsamic odor.

PREPARATION: The trunk of guaiacum by the more invasive tree trunk in the West Indies was crushed, and put it in heated ethanol and filtrated it. After the fractional distillation of ethanol from the solution, gum guaiac was produced.

USES OF GUM GUAIAc: Gum guaiac is mainly used for anti-oxidants and preservatives of the chewy gum bodying agent, buttermilk and fat. When used as antioxidants for vegetable oil and butter, the amount of gum guaiac shall not exceed 1g/kg.

TM slides feature special electrophoresis filter paper impregnated with guaiac. Since the guaiac is not in solution, it will remain stable for three years.

USES: Fecal occult blood testing (FOBT), as its name implies, aims to detect subtle blood loss in the gastrointestinal tract. Positive tests ("positive stool") may result from gastrointestinal bleeding and warrant further investigation for peptic ulcers or a malignancy (such as colorectal cancer or gastric cancer). The test does not directly detect colon cancer but is often used in clinical screening for that disease, but it can also be used to look for active occult blood loss in anemia or when there are gastrointestinal symptoms.

Pro Advantage™ Fecal Occult Blood Test is a rapid, convenient, and non-offensive qualitative method for detecting occult blood in the stool. It is intended for professional use as an aid in the diagnosis of asymptomatic gastrointestinal conditions that may manifest themselves by the presence of occult blood in the stool. This test is recommended for use in routine hospital testing, mass screening programs for colorectal cancer, and in testing of postoperative patients and newborn infants.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Non-Hazardous

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES: Non-Irritating
SKIN: None
INGESTION: None
INHALATION: N/A

ACUTE HEALTH HAZARDS: N/A
CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None
SECTION 4: FIRST AID MEASURES

EYES: N/A
SKIN: Wash off with soap and water. No irritation is expected.
INGESTION: Physician may induce vomiting.
INHALATION: No adverse affect is expected.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
FLASH POINT: N/A
AUTOIGNITION TEMPERATURE: N/A
NFPA HAZARD CLASSIFICATION
  HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
HMIS HAZARD CLASSIFICATION
  HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A PROTECTION: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: N/A

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store at room temperature (15°-30°C or 59°-86°F). Do not refrigerate or freeze. Protect from heat, humidity, and light. Do not store with volatile chemicals, e.g. iodine, chlorine (bleach), bromine or ammonia. When stored as recommended, slides will maintain sensitivity up to three years from date of manufacture. The guaiac slides are beige in color. However, if not stored as recommended, they may discolor and turn blue. Do not use after expiration date.

OTHER PRECAUTIONS: For in vitro diagnostic use. Do not substitute reagents from kits from other manufacturers. You may interchange slides & reagent from Pro Advantage™fecal occult blood kits as long as they are within the expiration date. Patient specimens and all materials coming into contact with them should be handled as if capable of transmitting infections and disposed of with proper precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION : NONE
RESPIRATORY PROTECTION: NONE
EYE PROTECTION: NONE
SKIN PROTECTION: Polyethylene Gloves
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A
EXPOSURE LIMITS: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light brown/Beige in color
ODOR: mild balsamic/vanillin Organic odor
pH AS SUPPLIED: N/A
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H2O = 1): N/A
SOLUBILITY IN WATER: RENDER TEST INVALID
GUAIAC: Insoluble in water; soluble in fats; dissolves readily but incompletely in ethanol, ether, and solutions of alkalis.
PERCENT SOLIDS BY WEIGHT: 100%
PERCENT VOLATILE: NONE
SECTION 10: STABILITY AND REACTIVITY

STABILITY: 3 YEARS

CONDITIONS TO AVOID (STABILITY): Store at room temperature (15°-30°C or 59°-86°F). Do not refrigerate or freeze. Protect from heat, humidity, and light.

INCOMPATIBILITY (MATERIAL TO AVOID): Do not store with volatile chemicals, e.g. iodine, chlorine (bleach), bromine or ammonia.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: NONE EXPECTED

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

<table>
<thead>
<tr>
<th>Eyes</th>
<th>No irritant</th>
<th>Skin</th>
<th>No irritation expected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory</td>
<td>None</td>
<td>Oral LD50:</td>
<td>N/A</td>
</tr>
<tr>
<td>Dermal LD50:</td>
<td>N/A</td>
<td>Chronic Toxicity:</td>
<td>None</td>
</tr>
<tr>
<td>Carcinogenicity:</td>
<td>None</td>
<td>Mutagenicity:</td>
<td>None</td>
</tr>
<tr>
<td>Teratogenicity:</td>
<td>None</td>
<td>Occupational Exposure:</td>
<td>No adverse effect expected</td>
</tr>
<tr>
<td>Limits:</td>
<td>None</td>
<td>Other:</td>
<td>None</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not Applicable

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: No procedure necessary.

WITH SPECIMEN: Patient specimens and all materials coming into contact with them should be handled as if capable of transmitting infections and disposed of with proper precautions.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Laboratory chemicals – non hazardous, Class 85

HAZARD CLASS: 

ID NUMBER: 

PACKING GROUP: 

LABEL STATEMENT: 

WATER TRANSPORTATION

PROPER SHIPPING NAME: Laboratory chemicals – non hazardous, Class 85

HAZARD CLASS: 

ID NUMBER: 

PACKING GROUP: 

LABEL STATEMENTS: 

AIR TRANSPORTATION

PROPER SHIPPING NAME: Laboratory chemicals – non hazardous, Class 85

HAZARD CLASS: 

ID NUMBER: 

PACKING GROUP: 

LABEL STATEMENTS: 

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): None

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: Not Reportable

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information provided in this Material Data Safety Sheet has been compiled from our experience and data presented in various technical publications. It is believed to be correct, however, it is the user’s responsibility to determine the suitability of this information for the adoption of safety precautions deemed necessary. NDC, Inc. shall not be held liable for any damage resulting from handling or from contact with the product described in this SDS. We reserve the right to update SDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.
The emergency response information services shown above have requested to be listed as providers of emergency response information and have agreed to provide emergency response information to all callers. They maintain periodically updated lists of state and Federal radiation authorities who provide information and technical assistance on handling incidents involving radioactive materials.

**NATIONWIDE POISON CONTROL CENTER** (United States Only)
Emergency and information calls are answered by the nearest Poison Center (24 hours): **1-800-222-1222** (toll-free in the U.S.).

**NATIONAL RESPONSE CENTER (NRC)**
The NRC, which is operated by the U.S. Coast Guard, receives reports required when dangerous goods and hazardous substances are spilled. After receiving notification of an incident, the NRC will immediately notify the appropriate Federal On-Scene Coordinator and concerned Federal agencies. Federal law requires that anyone who releases into the environment a reportable quantity of a hazardous substance (including oil when water is, or may be affected) or a material identified as a marine pollutant must **immediately** notify the NRC. When in doubt as to whether the amount released equals the required reporting levels for these materials, the NRC should be notified.

**CALL NRC** (24 hours) **1-800-424-8802** (Toll-free in the U.S., Canada, and the U.S. Virgin Islands); **202-267-2675** in the District of Columbia
Calling the emergency response telephone number, CHEMTREC®, CHEMTEL, INC., INFOTRAC or 3E COMPANY, does not constitute compliance with regulatory requirements to call the NRC.