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## MATERIAL SAFETY DATA SHEET

**TRADE NAME: VIZILITE® PLUS**

### Section I – Composition / Information on Ingredients

ViziLite® Plus consists of the following three components: 1) ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab; 2) ViziLite® Lightstick; and 3) TBlue® Dye Rinse Swab. Each is described in detail below.

#### ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

CAS Registry Number: Mixture  
CAS Name: Not applicable.  
Ingredients – CAS #: Glacial Acetic Acid USP – 64-19-7  
Sodium Benzoate NF –  
532-32-1 IFF  
Raspberry IC563457 –  
N/A Purified Water  
USP – 7732-18-5  
Synonyms: 1% Acetic Acid Rinse Bottle, 1% Acetic Acid Pre-Rinse Swab,  
1% Acetic Acid Post-Rinse Swab  
RTECS Number: Not applicable.  
CI Number: Not available. ViziLite® Lightstick  
Chemical Family: Plastic article containing chemiluminescer and activator components.  
CAS Registry Number: Not applicable.  
CAS Name: Not applicable.  
Composition: 

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>
Polyethylene	9002-88-4	35 – 56
Glass	N/A	0 – 10
Chemiluminescer	N/A	27 – 50
Activator	N/A	7 – 11

  
Synonyms: Flex-Stick(R) Lightsticks, Speculite(R), Lightstick, Mini Lightstick  
type B & E, Pop-to-Lite™, Cubes type B and E, Slide Light.  
RTECS Number: Not applicable.  
CI Number: Not available.

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>TWA/Ceiling</u>	<u>Reference</u>
<i>tert</i> -Butyl alcohol	75-65-0	2 – 3	100 ppm	OSHA, ACGIH
Dimethyl phthalate	131-11-3	15 – 20	150 ppm 5 mg/m <sup>3</sup>	STEL OSHA, ACGIH
Hydrogen peroxide	7722-84-1	0.5 – 0.7	1.4 mg/m <sup>3</sup>	OSHA, ACGIH
TBlue <sup>®</sup> Dye Rinse Swab				
CAS Registry Number:	92-31-9			
CAS Name:	Toluidine Blue O			
Ingredients – CAS #:				
	Glacial Acetic Acid USP – 64-19-7			
	Sodium Acetate Trihydrate USP – 6131-90-4			
	Ethyl Alcohol – 64-17-5			
	Hydrogen Peroxide USP – 7722-84-1			
	IFF Raspberry IC563457 – N/A			
	Purified Water USP – 7732-18-5			
Synonyms:	0.5% Tolonium Chloride Solution			
SARA 313:	SP5670000			
CI Number:	52040			

## Section II – Hazards Identification

### ViziLite<sup>®</sup> Acetic Acid Rinse Bottle / TBlue<sup>®</sup> Acetic Acid Rinse Swab

Emergency Overview:	Avoid contact and inhalation.		
HMIS Rating:	Health: 2	Flammability: 0	Reactivity: 1
NFPA Rating:	Health: 2	Flammability: 0	Reactivity: 1

### ViziLite<sup>®</sup> Lightstick

Emergency Overview:	Avoid contact and inhalation.		
HMIS Rating:	Health: N/A	Flammability: N/A	Reactivity: N/A
NFPA Rating:	Health: 0	Flammability: 1	Reactivity: 0

### TBlue<sup>®</sup> Dye Rinse Swab

Emergency Overview:	Avoid contact and inhalation.		
HMIS Rating:	Health: 2	Flammability: 1	Reactivity: 1
NFPA Rating:	Health: 2	Flammability: 1	Reactivity: 1

For additional information on toxicity, refer to Section 11.

## Section III – First Aid Measures

### ViziLite<sup>®</sup> Acetic Acid Rinse Bottle / TBlue<sup>®</sup> Acetic Acid Rinse Swab

Oral Exposure:	Oral exposure to the contents of ViziLite may cause transient irritation to the mouth, throat and gastro intestinal tract. Rinse mouth immediately and dilute with 4 to 5 ounces of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Loosen tight clothing such as a collar, tie,
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Inhalation Exposure:	belt or waistband. Get medical attention if symptoms appear. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen.
Dermal Exposure:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. For serious dermal exposure, wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Eye Exposure:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

ViziLite® Lightstick

Oral Exposure:	N/A
Inhalation Exposure:	N/A
Dermal Exposure:	N/A
Eye Exposure:	In case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

TBlue® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

Oral Exposure:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Inhalation Exposure:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Dermal Exposure:	In case of contact, immediately flush skin with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Exposure:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Do not use an eye ointment. Get medical attention.

**Section IV – Fire Fighting Measures**ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid

<u>Rinse Swab</u> Flash Point:	N/A
Autoignition Temperature:	N/A
Flammability:	Aqueous solution of 1% acetic acid is non-flammable.
Extinguishing Media:	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool

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Firefighting:	containing vessels with water jet in order to prevent pressure build-up or explosion.
Protective Equipment:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s):	Combustion yields carbon monoxide and carbon dioxide. Risk of explosion of the product in the presence of mechanical impact or static discharge: not available. Slightly explosive in presence of oxidizing materials. React with metal to produce flammable hydrogen gas. It will ignite on contact with potassium-tert-butoxide. A mixture of ammonium nitrate and acetic acid ignites when warmed, especially if warmed. Acetic acid vapors may form explosive mixtures with air. Reactions between acetic acid and the following materials are potentially explosive: 5-azidotetrazole, bromine pentafluoride, chromium trioxide, hydrogen peroxide, potassium permanganate, sodium peroxide, and phosphorus trichloride. Dilute acetic acid and dilute hydrogen can undergo an exothermic reaction if heated, forming peracetic which is explosive at 110 degrees C. Reaction between chlorine trifluoride and acetic acid is very violent, sometimes explosive.

ViziLite® Lightstick

Flash Point:	>200°F (93.3°C)
Autoignition Temperature:	Not available.
Flammability:	Flammable.
Extinguishing Media:	Use water spray, carbon dioxide, or dry chemical to extinguish fires. Use water to keep containers cool.
Firefighting Protective Equipment:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s):	Combustion yields carbon monoxide and carbon dioxide. Risk of explosion of the product in the presence of mechanical impact or static discharge: not available.

TBlue® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

Flash Point:	N/A
Autoignition Temperature:	N/A
Flammability:	May be combustible at high temperature.
Explosion Hazards:	Risk of explosion of the product in presence of mechanical impact: not available. Risk or explosion of the product in presence of static discharge: not available.
Extinguishing Media:	SMALL FIRE: use DRY chemical powder. LARGE FIRE: use water spray, fog, or foam. Do not use water jet.
Firefighting Protective Equipment:	Wear self-contained breathing apparatus with full face piece and protective clothing to prevent contact with skin and eyes.

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Specific Hazard(s): Not available

### Section V – Accidental Release Measures

#### ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid

##### Rinse Swab Procedure(s) of Personal

Precaution(s): Exercise appropriate precautions to minimize direct contact with skin or eyes.

Methods for Cleaning Up: **SMALL SPILL:** Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary, neutralize the residue with a dilute solution of sodium carbonate.

**LARGE SPILL:** Corrosive liquid. Keep away from heat. Top leak if without risk. If spill contains solids, use a shovel to put the material into a convenient waste disposal container. If spill is exclusively liquid, absorb with Dry earth, sand or other non-combustible material. Absorb with a inert material and put the spilled material in an appropriate waste disposal. Minimize exposure to spilled material. Keep away from heat. Stop leak if without risk. If the spill contains solids, use a shovel to put the material into a convenient waste disposal container. If the spill is exclusively liquid, absorb with DRY earth, sand or other non-combustible material. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium bicarbonate.

#### ViziLite® Lightstick

##### Procedure(s) of

Personal Precaution(s): Exercise appropriate precautions to minimize direct contact with skin or eyes.

Methods for Cleaning Up: Cover spills with inert absorbent material; sweep up and place in waste disposal container. Flush area with water.

#### TBlue® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

##### Procedure(s) of Personal

Precaution(s): Exercise appropriate precautions to minimize direct contact with skin or eyes.

Methods for Cleaning Up: **SMALL SPILL:** Use appropriate tools to put the spilled material in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**LARGE SPILL:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Section VI – Handling and Storage**

**Handling:** Keep locked up. Keep away from heat. Do not ingest. Do not breathe gas, fumes, vapor, or spray. Keep away from sources of ignition. Empty containers pose a fire risk. Do not ingest. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, metals, acids, and alkalis.

**Storage:** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container dry. Keep container tightly closed and sealed until ready for use. Do not store above 25°C (77°F).

**Section VII – Exposure Controls / Personal Protective Equipment**ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

**Exposure Limits:** Consult local authorities for acceptable exposure limits.

**Engineering Controls:** Ensure that eyewash stations and safety showers are proximal to the workstation location.

**Personal Protective Equipment:**

<b>Respiratory:</b>	Vapor respirator.
<b>Hand:</b>	Chemical-resistant protective gloves (impervious).
<b>Eye:</b>	Chemical safety goggles.
<b>Body:</b>	Synthetic apron.
<b>Feet:</b>	Boots.

**Large Spills:** Splash goggles, full suit, vapor respirator, boots and gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

**General Hygiene Measures:** Wash thoroughly after handling.

ViziLite® Lightstick

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See “GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION” (NIOSH)

TBlue® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

**Exposure Standard:** No exposure standard established.

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume

or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective  
Equipment:

Respiratory: Vapor respirator.  
Hand: Chemical-resistant protective gloves.  
Eye: Chemical safety goggles.  
Body: Laboratory coat.  
Feet: Boots.

Large Spills:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

General Hygiene Measures:

Wash thoroughly after handling.

**Section VIII – Physical / Chemical Properties / Uses**

ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

Physical State: Liquid  
Color: Colorless, clear (light)  
Taste: Raspberry  
Odor: Acetic Acid/Raspberry  
Molecular Formula: Glacial Acetic Acid: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
Sodium Benzoate: C<sub>7</sub>H<sub>5</sub>O<sub>2</sub>Na  
Molecular Weight: 82.03  
Percent Composition: N/A  
Absorption Maximum (water): N/A  
pH: 3 (acidic)  
BP / BP Range: 118.1°C (244.6°F)  
MP / MP Range: 16.6°C (61.9°F)  
Critical Temperature: 321.67°C (611°F) Point Vapor  
Pressure: 1.5 kPa (@20°C) Vapor  
Density: 2.07 (Air = 1) Saturated Vapor  
Concentration: N/A  
SG / Density Bulk: 1.053 (Water = 1)  
Odor Threshold: 0.48 ppm  
Threshold Volatile %: N/A  
VOC Content Water: N/A  
Content Solvent: N/A  
Content Evaporation: N/A  
Rate Viscosity: N/A  
Surface Tension: N/A  
Partition Coefficient: The product is more soluble in water; Log (oil/water) = -0.2  
Decomposition Temperature: N/A  
Flash Point Explosion: N/A  
Limits flammability: N/A

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Autoignition Temperature:	N/A
Refractive Index:	N/A
Optical Rotation:	N/A
Dispersion Properties:	Partially dispersed in methanol, diethyl ether, n-octanol.
Solubility:	Easily soluble in cold water, hot water. Partially soluble in methanol, diethyl ether, n-octanol, acetone.

ViziLite® Lightstick

Physical State/Appearance:	Article consisting of plastic tube or shape containing broken glass ampoule after activation with oxalate components.
Color:	Varies
Taste:	None
Odor:	None
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Percent Composition:	N/A Absorption Maximum (water):N/A pH: N/A
BP / BP Range:	N/A
MP / MP Range:	260°C (500°F)
Critical Temperature:	N/A
Point Vapor Pressure:	N/A
Vapor Density:	N/A Saturated Vapor Concentration: N/A SG / Density Bulk: < Water
Odor Threshold:	N/A
Threshold Volatile %:	N/A
VOC Content Water:	N/A
Content Solvent:	N/A
Content Evaporation:	N/A
Rate Viscosity:	N/A
Surface Tension:	N/A
Partition	
Coefficient:	N/A
Decomposition Temperature:	N/A
Flash Point Explosion:	N/A
Limits Flammability:	N/A
Autoignition Temperature:	N/A
Refractive Index:	N/A
Optical Rotation:	N/A
Dispersion Properties:	N/A
Solubility:	None.

N/A ≡ not available

TBlue<sup>630</sup>® Dye Rinse Swab

Physical State:	Liquid
Color:	Dark blue
Taste:	N/A
Form:	N/A
Odor:	Acetic Acid / Raspberry
Molecular Formulas:	Toluidine Blue O: C <sub>15</sub> H <sub>16</sub> CLN <sub>3</sub> S.Cl Glacial Acetic Acid: C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>
Molecular Weight:	Toluidine Blue O: 305.83 g/mole



	Acetic Acid: 82.03 g/mole
Percent Composition:	N/A
Absorption Maximum (water):	N/A
pH:	3 (acidic)
BP / BP Range:	118.1°C (244.6°F)
MP / MP Range:	16.6°C (61.9°F)
Critical Temperature:	321.67°C (611°F)
Point Vapor Pressure:	1.5 kPa (@20°C)
Vapor Density:	2.07 (Air = 1)
Saturated Vapor Concentration:	N/A
SG / Density Bulk:	1.053 (Water = 1)
Odor Threshold:	0.48 ppm
Threshold Volatile %:	N/A
VOC Content Water:	N/A
Content Solvent:	N/A
Content Evaporation:	N/A
Rate Viscosity:	N/A
Surface Tension:	N/A
Partition Coefficient:	The product is more soluble in water; Log (oil/water) = -0.2
Decomposition Temperature:	N/A
Flash Point Explosion:	N/A
Limits Flammability:	N/A
Autoignition Temperature:	N/A
Refractive Index:	N/A
Optical Rotation:	N/A
Dispersion Properties:	Partially dispersed in methanol, diethyl ether, n-octanol.
Solubility:	Toluidine Blue O: partially soluble in cold water, hot water. Acetic Acid: easily soluble in cold water, hot water; partially soluble in methanol, diethyl ether, n-octanol, acetone.

N/A ≡ not available

### Section IX – Stability and Reactivity

#### ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

**Stability:** Stable. Unstable to heat and/or incompatible materials. Reactive with oxidizing agents, reducing agents, metals, acids, alkalis. Highly corrosive in presence of stainless steel (304). Slightly corrosive in presence of aluminum, of copper. Non-corrosive in presence of stainless steel (316).

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide. Emits fumes of acetic acid upon heating and on contact with strong acids.

**Hazardous Polymerization:** Will not occur.

#### ViziLite® Lightstick

**Stability:** Stable.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Incompatible Materials: None known.

TBlue® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

Stability: Stable. Reactive with strong oxidizing agents. Non-corrosive in the presence of glass

Hazardous Decomposition Products: Chloride/Hydrochloric acid, Nitrogen oxides (NOx)/ammonia/CN-, Sulphur oxides

Hazardous Polymerization: Will not occur.

**Section X – Toxicological Information**

ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid

Rinse Swab Not applicable under normal conditions of use.

Route of Exposure:

Skin Contact: Mildly irritating and corrosive. Causes skin irritation (reddening and itching, inflammation). May cause blistering, tissue damage and burns.

Eye Contact: Hazardous in case of eye contact (irritant, corrosive). Inflammation of the eye is characterized by redness, watering, and itching. Extremely irritating and corrosive. Causes eye irritation, lacrimation, redness, and pain. May cause burns, blurred vision, conjunctivitis, conjunctival and corneal destruction and permanent injury.

Inhalation: hazardous if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Liquid may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Affects the sense organs (nose, ear, eye, taste), and blood. May cause chemical pneumonitis, bronchitis, and pulmonary edema. Severe exposure may result in lung tissue damage and corrosion (ulceration) of the mucous membranes. Inhalation may also cause rhinitis, sneezing, coughing, oppressive feeling in the chest or chest pain, dyspnea, wheezing, tachypnea, cyanosis, salivation, nausea, giddiness, muscular weakness.

Ingestion: Hazardous if swallowed. Moderately toxic. Corrosive. May cause gastrointestinal tract irritation (burning and pain of the mouth, throat, and abdomen, coughing, ulceration, bleeding, nausea, abdominal spasms, vomiting, hematemesis, diarrhea). May also affect the liver (impaired liver function) and the urinary system - kidneys (hematuria, albuminuria, nephrosis, acute renal failure, acute tubular necrosis). May also cause dyspnea or asphyxia.

Signs / Symptoms: See above.

Toxicity Data: Oral (rat): N/A  
Vapor (mouse): N/A  
Dermal (rabbit): N/A

Teratogenic Effects:	Not available.
Mutagenic Effects:	Mutagenic for mammalian somatic cells. Mutagenic for bacteria and yeast.
Carcinogenic Effects:	Not available.
Developmental Toxicity:	May affect genetic material and may cause reproductive effects based on animal data. No human data found.
Chronic Potential Health Effects: Ingestion:	Repeated or prolonged exposure to the substance can produce target organs damage. Chronic exposure via ingestion may cause blackening or erosion of the teeth, and jaw necrosis, pharyngitis, and gastritis. It may also affect behavior (similar to acute ingestion) and metabolism (weight loss)
Inhalation:	Repeated or prolonged exposure may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Chronic exposure via inhalation may cause asthma and/or bronchitis with cough, phlegm, and/or shortness of breath. It may also affect the blood (decreased leukocyte count) and urinary system (kidneys).
Eye Contact:	Repeated or prolonged contact may produce chronic eye irritation.
Skin Contact:	Repeated or prolonged contact may produce chronic severe skin irritation. Repeated or prolonged skin contact may cause thickening, blackening, and cracking of the skin.

#### ViziLite® Lightstick

Not applicable under normal conditions of use. Route of Exposure:

Skin Contact:	Mildly irritating.
Eye Contact:	Mildly irritating.
Inhalation:	Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	Hazardous if swallowed. Moderately toxic.
Signs / Symptoms:	See above.
Toxicity Data:	Oral (rat): greater than 5 g/kg Vapor (mouse): N/A Dermal (rabbit): greater than 5 g/kg
Teratogenic Effects:	Not available.
Mutagenic Effects:	Not available.
Carcinogenic Effects:	Not available.
Developmental Toxicity:	Not available. Chronic Potential
Health Effects:	
Ingestion:	None known.
Inhalation:	None known.
Eye Contact:	None known.
Skin Contact:	None known.
Overexposure:	Not likely to cause significant acute toxic effects. No significant skin irritation was observed during animal testing.

#### TBlue® Dye Rinse Swab

See additional precautions under "ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab" above.

Route of Exposure:

Skin Contact: Hazardous in case of skin contact (irritant).

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Skin Absorption:	Information not available.
Eye Contact:	May cause eye irritation. Dust may cause mechanical irritation.
Inhalation:	Hazardous if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion:	Hazardous if swallowed. Signs and Symptoms of
Exposure:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Toxicity Data:	No information available
Teratogenic Effects:	None identified

### Section XI – Ecological Information

#### ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

Ecotoxicity in water:	N/A Possibly hazardous short term degradation products are not likely. However, long-term degradation products may arise. The products of degradation are less toxic than the product itself.
BOD5 and COD:	N/A

#### ViziLite® Lightstick

Ecotoxicity in water:	N/A
BOD5 and COD:	N/A

Wastes that are classified as hazardous waste are potentially subject to the RCRA Land Disposal Restrictions. The Land Disposal Restriction regulations are contained in 40 CFR 268. Only waste which meets the regulatory definition of a hazardous waste is subject to the land disposal restrictions. Activated light sticks do not meet the definition of a Characteristic Hazardous Waste, and therefore, under the regulations, can be disposed of as a solid waste in solid waste landfills and incinerators unless prohibited by site-specific solid waste facility restriction.

#### TBlue<sup>630</sup>® Dye Rinse Swab

See additional precautions under “ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab” above.

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more toxic than the product itself

### Section XII – Disposal Considerations

#### Appropriate Methods of Disposal of Substance or Preparation

Waste disposal must be in accordance with appropriate Federal, State, and local environmental control regulations. This product, if unaltered by use may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous. Do not re-use empty containers.

### Section XIII – Transport Information

#### ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab

DOT Classification:	Proper Shipping Name: None Non-Hazardous for Transport Non-Regulated
IATA Classification:	Proper Shipping Name: None

Non-Hazardous  
for Transport  
Non-Regulated

ViziLite® Lightstick

DOT Classification: Proper Shipping Name: None  
Non-Hazardous for Transport  
Non-Regulated

IATA Classification: Proper Shipping Name: None  
Non-Hazardous for Transport  
Non-Regulated

TBlue® Dye Rinse Swab

DOT Classification: Proper Shipping Name: None  
Non-Hazardous for Transport Non-  
Regulated

IATA Classification: Proper Shipping Name: None  
Non-Hazardous for Transport Non-Regulated

**Section XIV – Regulatory Information**ViziLite® Acetic Acid Rinse Bottle / TBlue® Acetic Acid Rinse Swab, ViziLite® Lightstick

State Regulations: New York release reporting list: Acetic acid

Rhode Island RTK hazardous substances: Acetic acid

Pennsylvania RTK: Acetic acid

Florida: Acetic acid Minnesota: Acetic acid

Massachusetts RTK: Acetic acid

New Jersey: Acetic acid

California Director's List of Hazardous Substances (8 CCR 339): Acetic acid

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR  
1910.1200). EINECS: This product is on the European Inventory of  
Existing Commercial Chemical Substances.

EU Additional Classification: S23- Do not breathe gas / fumes / vapor / spray

S26- In case of contact with eyes, rinse immediately with plenty of  
water and seek medical advice.

S45- In case of accident or if you feel unwell, seek medical  
advice immediately (show the label where possible).

US Classification and Label Text:

US Statements: Caution: avoid contact and ingestion.

United States Regulatory Information:

CERCLA: Hazardous substances: Acetic acid: 5000 lbs. (2268 kg). TSCA

8(b) Inventory Item: Yes; Acetic acid

SARA Listed: No Canada Regulatory Information:

WHMIS Classification: CLASS B-3: N/A CLASS E: Corrosive liquid.

TBlue® Dye Rinse Swab

See additional regulatory information / restrictions under “ViziLite® Acetic Acid Rinse Bottle /  
TBlue® Acetic Acid Rinse Swab” above.

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OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR § 1910.1200).  
EINECS: 202-146-2  
EU Additional Classification:  
S: 24 / 25 22  
Safety Statements: Avoid contact with skin and eyes. Do not breathe dust.  
R: 20 / 21 / 22  
Safety Statements: Harmful by inhalation, in contact with skin, and if swallowed.  
R: 36 / 38  
Safety Statements: Irritating to eyes and skin.  
R: 63  
US Classification and Label Text:  
US Statements: Caution: avoid contact and inhalation.  
United States Regulatory Information:  
SARA Listed: No  
TSCA 8(b) Inventory Item: Yes  
Canada Regulatory Information:  
WHMIS Classification: Not controlled.

**EMERGENCY PHONE NUMBER: (805) 346-3700**

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