

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****TRADE NAME:** BLUECLUE**PRODUCT ID:****DATE:** 9 July 2015**SUPERSEDES DATE:** 1 January 2014**MANUFACTURER:** Tri Tech Forensics, Inc.**ADDRESS:** 4019 Executive Park Blvd.  
Southport, NC 28461-8026  
910-457-6600[www.tritechforensics.com](http://www.tritechforensics.com)

The public cannot use the chemical; trained professionals use the chemical only.

**24/7 EMERGENCY PHONE:** INFOTRAC 1-800-535-5053 or 1-352-323-3500**24/7 HEALTH EMERGENCIES:** 800-222-1222 National Poison Control Center.**SECTION 2 - HAZARDS IDENTIFICATION****GHS :****GHS SIGNAL WORD:** Danger**POTENTIAL HEALTH EFFECTS**

Avoid contact with eyes and skin. Keep out of reach of children.

The product may be harmful if it is inhaled or swallowed.

**CODE OF HAZARD STATEMENTS:***General*

H290-May be corrosive to metals.

*Health Hazards*

H312-Harmful in contact with skin.

H314: Causes severe skin burns and eye damage

H319-Causes serious eye irritation.

H330: Fatal if inhaled

H361: Suspected of damaging fertility or the unborn child

H370: Causes damage to organs (respiratory system)

H372: Cause damage to organs through prolonged or repeated exposure (respiratory system)

H373: May cause damage to organs through prolonged or repeated exposure (kidney)

*Environmental hazards*

H400: Very toxic to aquatic life

H402-Harmful to aquatic life.

**CODE OF PRECAUTIONARY STATEMENTS:***General*

P101-Keep out of reach of children.

P103-Read label before use.

*Prevention statements*

P201: Obtain special instructions before use.

P202-Do not handle until all safety precautions have been read and precautions and understood.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash ... thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: Wear respiratory protection.

*Response statements*

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

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P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P320: Specific treatment is urgent (see ... on this label).  
P321: Specific treatment (see ... on this label)  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P363: Wash contaminated clothing before reuse.  
P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P352, Wash with plenty of soap and water.  
P362, Take off contaminated clothing and wash before reuse.  
P391: Collect spillage.  
*Storage*  
P403-Store in a well-ventilated area.  
P405: Store locked up.  
P501: Dispose of contents/container to...  
**ROUTES OF ENTRY:** Inhalation, Ingestion, Skin Contact  
**CARCINOGENICITY:** None

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	EINECS #	%	REACH Reg. #
Sulfuric Acid	7664-93-9	231-639-5		Yes
Diphenylamine	122-39-4	228-165-6		Yes

### SECTION 4 - FIRST AID MEASURES

**INHALATION:** Remove to fresh air, if distress continues, administer oxygen and contact physician  
**EYE CONTACT:** Flush with cool tap water for at least 15 minutes, Seek medical attention  
**SKIN CONTACT:** Remove affected clothing; thoroughly wash skin with warm water  
**INGESTION:** Drink large amounts of water, do not induce vomiting, Seek medical attention ASAP

### SECTION 5 - FIREFIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not-combustible  
**FLAMMABLE LIMITS:** LEL: N/A UEL: N/A  
**EXTINGUISHING METHOD:** Carbon Dioxide, Dry Chemical, water mist, do not use heavy water spray  
**FIRE OR EXPLOSION HAZARDS:** Emits toxic fumes under fire conditions  
**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL OR LEAK PROCEDURES:** Wear protective equipment. For small spills, Neutralize with alkaline-based neutralizer, such as soda-lime or soda-ash. Absorb on paper towels, vermiculite, or other absorbent. If dry- clean up spill in a manner which minimizes dust spread. Discard in a manner consistent with Federal, State, and Local guidelines.

### SECTION 7 - HANDLING AND STORAGE

**HANDLING AND STORAGE PRECAUTIONS:** Store and handle according to package and SDS directions. Store in cool, well-ventilated area. Keep away from reactive materials.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**EYE PROTECTION:** Safety goggles  
**SKIN PROTECTION:** Chemical resistant gloves  
**RESPIRATORY PROTECTION:** NIOSH/MSHA Approved Respirator

**OCCUPATIONAL EXPOSURE LIMITS:** OSHA PEL TWA;

**ENGINEERING CONTROLS:** Room ventilation is expected to be adequate except during spills or fires.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color:	Clear colored liquid		
Odor:	N/A		
Evaporation rate:	Low		
Boiling point/boiling range:	Approx. 290°F	Specific gravity:	Approx. 1.8
Solubility (water):	Soluble	Vapor Density:	>1
Volatile Organic Content:	>90%	Vapor Pressure:	1

### SECTION 10 - REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** High Temperatures

**INCOMPATIBLES:** Strong Oxidizing agents, organic halogens, metals, Amines, Strong acids, Strong bases

**DECOMPOSITION PRODUCTS:** Hydrogen Sulfide gas

### SECTION 11 - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Do not ingest, get in eyes, on skin, or on clothing. Avoid breathing dust or vapor. Wash thoroughly after handling. Exercise extreme caution when using as product is extremely corrosive. Discard swabs or other materials used with this reagent in a safe manner. The significant routes of exposure are eyes, skin, ingestion and inhalation.

### SECTION 12 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of wastes in accordance with current Federal, State, and Local codes and guidelines.

### SECTION 13 - TRANSPORTATION INFORMATION

Sulfuric Acid UN 3316, Class 9 Corrosive, Limited quantity exception

### SECTION 14 - REGULATORY INFORMATION

**OSHA STATUS:** Harmful by inhalation, ingestion and eye contact

**TSCA STATUS:** Sulfuric Acid, Diphenylamine

**CERCLA REPORTABLE QUANTITY:** Sulfuric Acid 1,000lbs

**CALIFORNIA PROPOSITION 65:** Sulfuric Acid; Cancer

**RCRA STATUS:**

**SARA TITLE III:**

**SECTION 302 EXTREMELY HAZARDOUS:** Sulfuric Acid, 1,000lbs

**SECTION 313 TOXIC CHEMICALS:** Sulfuric Acid, Diphenylamine

**RIGHT TO KNOW:** Sulfuric Acid is listed in PA and NJ; Diphenylamine is listed in NJ

**EUROPEAN COMMUNITY:** Ingredients are not listed on the inventory



### SECTION 15 – OTHER INFORMATION/APPROVALS

National Fire Protection Association (NFPA)

NFPA

	0 Least	
2 Health	1 Slight	
0 Flammability	2 Moderate	
0 Instability	3 High	
	4 Severe	

### SECTION 16 – ABBREVIATIONS /DISCLAIMER

# SAFETY DATA SHEET

# BlueClue (Gunpowder Particle Test Kit)

**REASON FOR ISSUE:** This is a new SDS that complies with GHS regulations (Section 2 pictograms) and REACH compliance (Section 3).

**APPROVAL DATE:** 28 July 2015

**PREPARED BY:** Neil Jacob

**REVIEWED BY** James Seidel

## ABBREVIATIONS:

CAS #	Chemical Abstract Service Number	EINECS	European Inventory of existing Commercial Chemical Sales
°C	Celsius temperature scale	°F	Fahrenheit temperature scale
Prop.	Proprietary	PE	Personal Protective Equipment
TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short-term Exposure Limit	PEL	Permissible Exposure Limit
OSHA	Occupational Safety & Health	NIOSH	National Institute of Safety & Health
NFPA	National Fire Protection Agency	WHMIS	Workplace Hazardous Materials Information System
NTP	National Toxicology Program	IARC	Int. Agency for Research on Cancer
RCRA	Resource Conservation Recovery ACT	TSCA	Toxic Substance Control Act
EC <sub>50</sub>	Effective Dose	LC <sub>50</sub>	Lethal Inhalation Concentration
LD <sub>50</sub>	Lethal Dose	CAS	Chemical Abstract Service Number
LEL	Lower explosive limit	UEL	Upper explosive limit
NDA	No Data Available	ND	Not determined
NE	None established	NA	Not Applicable
≤	Less Than or Equal To	≥	Greater Than or Equal To
CNS	Central Nervous System	CI	China
DSL	Canada	ECL	Korean Existing Chemicals List
EEC	European Economic Commission	ENCS	Japanese Existing and New Chemical List
EU	European Union	MAC	Netherlands
MAK	Germany	MITI	Japan
PICCS	Philippines	SWISS	Giftliste 1
UK	United Kingdom	USA	United States
VOC	Volatile organic content		
ACGIH	American Conference of Government Industrial Hygienists		
SARA	Superfund Amendments and Reauthorization Act		
AICS	Australian Inventory of Chemical Substances		
IARC	International Agency for Research on Cancer		
Taiwan	List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086		

### Disclaimer:

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