

INEXTTEQ

BETTER TECHNOLOGY. BETTER QUALITY.
BETTER VALUE.

M8 Detection Paper

*Chemical Warfare Agent
Detection Papers*



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P/N 90007 Rev B 4/06

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I. INTRODUCTION



M8 Detection Paper (**Part Number 10010030**) includes the following:

- One (1) Booklet of 50 M8 Detection Paper (2 per page)
- One (1) M8 Detection Paper Manual

II. SPECIFICATIONS

Weight:	0.6 oz (17 g)
Dimensions:	4 in L x 2.5 in W x 0.375 in D (10 cm L x 6.5 cm x 0.95 cm)
Sampling Temperature:	-26°F to 120°F (-32°C to 49°C)
Minimum Detectable Concentration:	0.02 ml
Color Unreacted:	Tan
Color Changes:	Yellow-Gold = G Nerve Agent Dark Green = V Nerve Agent Red-Pink = H Blister Agent
Storage Temperature:	-26°F to 120°F (-32°C to 49°C)
Storage Condition:	Keep tightly closed in original sealed bags in a secure, dry, cool space. Do not store long-term in direct sunlight.
Shelf Life:	5 years if stored correctly

III. WARNINGS



1. Before using this product, read, understand, and comply with all labels, warnings, instructions, and other literature accompanying the product, including but not limited to, this manual and the MSDS in this manual (also available as P/N 90013 Rev B 3/06). Failure to comply with all warnings and instructions could cause serious injury.
2. Only use the product in strict compliance with the manufacturer's specifications and instructions. Not using this product in accordance with the manufacturer's specifications and instructions may result in serious injury or death.
3. Be thoroughly familiar with this product, the manufacturer's instructions and warnings, and associated equipment before using this product.
4. Inspect this product and associated equipment for damage or defects before using. Do not use this product if this product or associated equipment is damaged or defective or if the M8 Detection Paper is wet.
5. Keep all bystanders away from this product during use or testing.
6. Do not remove, alter, or cover any label, instruction, or warning.
7. Wear eye protection (such as government-approved chemical safety goggles) in accordance with OSHA standards when exposed to chemical vapors. If contact lenses are worn, they should be worn in strict compliance with applicable NIOSH, OSHA, and ACOEM standards.
8. Wear chemical-impervious clothing and safety gloves in accordance with OSHA standards and good practice when using M8 Detection Paper. Recommended for use are chemical-resistant gloves that meet all federal, state, and local statutes and regulations for the contaminant. Do not get unknown chemicals in eyes, on skin, or on clothes.
9. Gloves and other required and recommended personal protective equipment should be adequate for protecting for the period necessary to test and perform other related activities, including if necessary, decontamination.

10. Do not rub paper on skin. If paper comes in contact with skin, immediately wash exposed area with soap and water.
11. Do not place paper in eyes. If paper comes in contact with eyes, flush immediately with clean water, including under eyelids for at least 15 minutes.
12. Do not eat, drink, take internally, or consume paper. Consuming paper may result in serious injury, sickness, or death.
13. Do not heat or expose paper to open flame. If burned, paper may emit dangerous toxic fumes. Do not breathe smoke from burning paper as it may result in serious injury, sickness, or death.
14. Use the M8 Detection Paper before the expiration date. Do not use the paper on or after the expiration date or if the product is damaged or if the paper has been previously exposed to chemical warfare agents. Use of the M8 Detection Paper after the expiration date may cause false negatives, false low readings, false positives, or erroneous readings resulting in serious injury or death.
15. Be careful not to touch the suspected chemical warfare agent or splash the suspected chemical warfare agent on others.
16. After using paper, wash face, hands, and any areas exposed to chemicals or chemical vapors thoroughly with soap and water before eating, drinking, smoking, applying cosmetics, inserting or removing contact lenses, or touching eyes or mucous membranes.
17. This product is only for sale to, only for use by, and only for storage by trained and qualified professional industrial or commercial users.
18. Do not dispose of expired or used paper in domestic or residential waste. M8 Detection Paper must be disposed of properly because it contains irritating, harmful, and toxic chemicals. Dispose of M8 Detection Paper in strict accordance with federal, state, and local statutes, ordinances, and regulations.
19. M8 Detection Paper is primarily composed of chemicals. Keep M8 Detection Paper and associated materials out of the reach of children.

20. Do not distribute M8 Detection Paper without a complete set of Nextteq instructions, warnings, and specifications. Distributing M8 Detection Paper without a complete set of warnings, instructions, and specifications may result in misuse and lead to serious injury or death.
21. This product(s) is designed for use in ambient atmospheres of -26°F to 120°F (-32°C to 49°C).
22. Do not store in direct sunlight. Store in a safe, secure, dark, dry, well-ventilated, cool space. Prolonged exposure to direct sunlight may fade color comparison card or damage the chemical reagents.
23. Ship or transport this product in accordance with all federal, state and local laws and regulations, including federal DOT, OSHA, and FAA regulations.
24. Keep this manual and all Nextteq instructions and warnings available for reference and training.
25. Check with your transportation provider before bringing M8 Detection Paper on an airplane, train, bus, or other method of transportation.
26. Remember the product is only as safe as the product user.
27. Nextteq assumes no liability from the misuse of the M8 Detection Paper or the misinterpretation of the results by the user.
28. Never use the results of this paper as the only evidence of the presence or absence of a particular chemical warfare agent. ALWAYS use this paper in conjunction with other tests or information to confirm the identity of an unknown substance. Failure to follow this warning may cause exposure to a chemical warfare agent, resulting in serious bodily injury or death.
29. If you need more information or if you have any questions about operation or use, contact Nextteq at one of the following telephone numbers: toll free 877-312-2333 or local number 813-249-5888.

DISCLAIMER OF WARRANTIES

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THE PROPER USE OF M8 DETECTION PAPER, ANY INSTRUCTIONS, WARNINGS, LABELS, SPECIFICATIONS, TEST PROTOCOL, OR THE M8 DETECTION PAPER MANUAL, THE USER SHOULD CALL NEXTTEQ FOR ASSISTANCE PRIOR TO USING THE PRODUCT. NEXTTEQ CAN BE CONTACTED AT ONE OF THE FOLLOWING TELEPHONE NUMBERS: TOLL FREE 877-312-2333 OR LOCAL NUMBER 813-249-5888.

LIMITATION OF DAMAGES

THE PARTIES HERETO AGREE THAT BUYER'S SOLE AND EXCLUSIVE DAMAGES FOR SELLER'S BREACH SHALL BE LIMITED TO THE PRICE OF THE GOODS SOLD AND THAT ALL OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO, CONSEQUENTIAL, INCIDENTAL, EXEMPLARY, PUNITIVE, AND STATUTORY DAMAGES ARE EXCLUDED. THE PARTIES FURTHER AGREE THAT THIS LIMITATION OF DAMAGES PROVISION IS INDEPENDENT OF THE LIMITATION OF REMEDIES PROVISION AND WILL BE ENFORCEABLE EVEN IF A REMEDY FAILS ITS ESSENTIAL PURPOSE.

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IV. MSDS

MSDS for M8 Detection Paper

P/N 90013 Rev. B 3/06

Section 1 – Material Identification

Product Name: M8 Detection Paper

Section 2 – Composition/Information on Ingredients

Substance Name: M8 Detection Paper

Ingredient Names:

- | | |
|------------------|----------|
| 1) Dye Red E | 0.4-0.8% |
| 2) Dye Green EDA | 0.7-1.3% |
| 3) Dye Yellow A2 | 0.8-1.6% |
| 4) Rosin | 2% |
| 5) Alum | 3% |
| 6) Paper pulp | Balance |

CAS #

- 1) 60033-00-3
- 2) 5833-18-1
- 3) 8003-87-0
- 4) 8050-09-7
- 5) 7784-24-9
- 6) not available

Chemical Formulas:

- 1) $C_{57}H_{46}N_6O_4$
- 2) $C_{16}H_{12}N_4O_{10}$
- 3) $C_{26}H_{18}N_4O_6S_2Na$
- 4) $C_{20}H_{30}O_2$ plus other mixes of abietic anhydride and 10% of neutral matter.
- 5) $AlH_{24}KO_{20}S_2$
- 6) not available

Section 3 – Hazards Identification

EMERGENCY OVERVIEW: Irritant. Irritating to eyes and skin.

Exposure Limits

Dye Red

Not established by ACGIH

Dye Green

Not established by ACGIH

Dye Yellow A2

Not established by ACGIH

Rosin

Not established by ACGIH

Alum.

ACGIH-TLV: TWA 2 mg/m³

Paper pulp

Not established by ACGIH

Section 4 – First Aid Measures

ORAL EXPOSURE: If swallowed, wash mouth out with water (provided person is conscious). Call a physician.

DERMAL EXPOSURE: In case of contact, immediately wash skin with soap and water. If irritation occurs or persists, seek medical attention.

EYE EXPOSURE: In case of contact, immediately flush eyes with clean water, including under eyelids for at least 15 minutes. If irritation occurs or persists, seek medical attention.

Section 5 – Fire Fighting Measures

FLASH POINT: N/A

AUTOIGNITION TEMP: N/A

FLAMMABILITY: N/A

EXTINGUISHING MEDIA:

Suitable: Dry chemical powder, carbon dioxide, foam, or water spray.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus with full face piece operated in a pressure demand or other positive pressure mode and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Fire Degradation Products: Oxides of carbon, sulfur, metal, and nitrogen.

EXPOSURE HAZARD(S): Material: Irritant.

Section 6 – Accidental Release Measures

N/A

Section 7 – Handling and Storage

HANDLING:

User Exposure: Avoid contact and inhalation. Do not get in eyes, on skin, or on clothing.

STORAGE:

Suitable: Store in a cool dry place. Store away from incompatible materials and potential sources of ignition.

Section 8 – Exposure Controls / PPE

ENGINEERING CONTROLS: Do not use in unventilated spaces.

PERSONAL PROTECTIVE EQUIPMENT: Wear eye protection, chemical resistant clothing, and chemical impervious gloves in accordance with OSHA and NIOSH standards.

GENERAL HYGIENE MEASURES: Do not smoke, eat, or drink while handling. Wash hands after use and before smoking, eating, drinking, applying cosmetics, inserting or removing contact lenses and dentures or other invasive medical devices.

Section 9 – Physical/Chemical Properties

Appearance: Solid. Beige/Tan. Odorless.

Section 10 – Stability and Reactivity

Stability: Stable.

Conditions to Avoid: High temperatures. Sparks. Open flames and all other sources of ignition.

Materials to Avoid: Oxidizing agents, acids, bases, ketones, chlorinated hydrocarbons, alcohols, nitro compounds.

Hazardous Decomposition Products: Not Available.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

ROUTE OF EXPOSURE

Eye: Because this is a solid material and not a powder or dust, it is not expected to be a route of exposure. If paper comes into contact with eyes, flush immediately with clean water, including under eyelids for not less than 15 minutes.

Skin: Repeated or prolonged skin contact may cause dermatitis. In case of contact with skin, immediately wash exposed area with soap and water.

Inhalation: This product is not considered an inhalation hazard because it is not a powder or dust.

Ingestion: No specific information is available on ingestion of this material. Do not eat, drink, take internally or consume M8 Detection Paper. Consuming M8 Detection Paper may result in serious injury or death. If ingested and conscious, wash out mouth with water. Seek immediate medical attention.

SIGNS AND SYMPTOMS OF EXPOSURE:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 – Ecological Information

Not available.

Section 13 – Disposal Considerations

Dispose in accordance with all federal, state, and local environmental regulations and statutes.

Section 14 – Transport Information

Ship or transport this product in accordance with all federal, state and local laws and regulations, including federal DOT, OSHA, and FAA regulations.

Section 15 – Regulatory Information

UNITED STATES REGULATORY INFORMATION SARA LISTED: No

CANADA REGULATORY INFORMATION WHMIS Classification: Not controlled under WHMIS.

Section 16 – Special Precautions & Comments

Class of Users: This product is only to be sold to, only for use by, and only for storage by trained, qualified, professional industrial or commercial users.

Handling & Storage: Store in the original container in a cool dry place. Protect against light, heat, moisture, and physical damage.

Section 17 - DISCLAIMER OF WARRANTIES

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Part 18 - LIMITATION OF DAMAGES

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Part 19 - LIMITATION OF REMEDIES

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V. OPERATING INSTRUCTIONS

A. *Recommended Usage*

Nextteq recommends the following in regards to use of M8 Detection Paper:

- A. M8 Detection Paper does not detect gases or vapors. M8 Detection Paper detects liquid chemical warfare agents.
- B. Do not attach M8 Detection Paper to hot, oily, or greasy surfaces. Hot, oily, or greasy surfaces may cause a false positive.
- C. This product is intended for the rapid qualitative identification of the presence or absence of G and V Nerve Agents and H Blister Agents.
- D. Confirmation of the presence or absence of chemical warfare agent should be conducted using additional means of identification.

B. *Required Steps before Usage*

- 1. Before using this product, read, understand, and comply with all labels, warnings, instructions, and other literature accompanying the product, including but not limited to, this manual.

Keep this manual for reference and training.

- 2. Be thoroughly familiar with this product, the manufacturer's instructions and warnings, and associated equipment before using this product.
- 3. Inspect this product and associated equipment for damage or defects before using. Do not proceed in using this product if this product or associated equipment is damaged or defective.
- 4. Keep all bystanders away from this product during use.
- 5. Before using or attempting to use this product, users should wear the following:
 - A. Government-approved chemical-resistant safety gloves in accordance with OSHA standards and good practice.
 - B. Respiratory protection in accordance with OSHA standards.

- C. Eye protection in accordance with OSHA standards and good practice. Contact lenses should be worn in strict compliance with applicable NIOSH, OSHA, and ACOEM standards.
 - D. Chemical resistant clothing in accordance with OSHA standards and good practice.
- 6. This product(s) is designed for use in ambient atmospheres of -26°F to 120°F (-32°C to 49°C).
 - 7. Ensure that M8 Detection Paper is not wet and its original unreacted tan color.

C. Usage Instructions

- 1. Tear off one sheet of M8 Detection Paper along perforated edge.
- 2. Use tweezers or similar tool to grasp the M8 Detection Paper.
- 3. Carefully and slowly, avoiding splashing, blot a small portion of the M8 Detection Paper onto the unknown liquid until it absorbs a sample of the liquid.
- 4. Carefully remove the test paper from the unknown liquid while avoiding drips or spreading the unknown liquid.
- 5. Wait approximately 30 seconds and observe the color change.
- 6. Compare any change in color to the color chart listed on the inside of the M8 Detection Paper booklet. The color changes are described in Table 1:

Color Change	Chemical Warfare Agent
Yellow-Gold	G (Nerve Agent)
Red-Pink	H (Blister Agent)
Dark Green	V (Nerve Agent)

Table 1 Color Change Associated with Various Agents

NOTE: Minimum detectable concentration for M8 Detection Paper is 0.02 ml.

NOTE: The following substances or conditions may cause false positive or false negative readings in M8 Detection Paper:

- Ammonia
- Petroleum Products
- Organic Solvents (such as pesticides)
- Hot greasy oily surfaces
- “Break Free” (a brand of weapon cleaner and lubricant)
- Decontamination solution 2 (DS2)
-

D. Storage and Disposal

1. Store M8 Detection Paper in original sealed bag in a cool, dry place away from light, heat, moisture, and damage.
2. Dispose of used M8 Detection Paper sheets according to federal, state, and local statutes and regulations.

