

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : PrintMatic Porelon Fingerprint Ink Roller System  
 Product code : A-2482

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fingerprint Ink Pad

#### 1.3. Details of the supplier of the safety data sheet

Arrowhead Forensics  
 11030 Strang Line Road  
 Lenexa, KS 66215  
 T 913-894-8388  
<http://www.arrowheadforensics.com>

#### 1.4. Emergency telephone number

Emergency number : 1.800.424.9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Flam. Liq. 4 H227  
 Eye Irrit. 2A H319  
 Carc. 2 H351  
 STOT SE 1 H370  
 STOT RE 2 H373

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

- H227 - Combustible liquid
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
- H370 - Causes damage to organs
- H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
- P260 - Do not breathe vapors
- P264 - Wash all exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P280 - Wear eye protection, protective gloves
- 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/doctor
- P308+P313 - If exposed or concerned: Get medical advice/attention
- P314 - Get medical advice/attention if you feel unwell
- P321 - Specific treatment (see ... on this label)
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P370+P378 - In case of fire: Use CO2, dry chemical, foam, water spray to extinguish
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up

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P501 - Dispose of contents/container to local/regional/national/international regulations

### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions. Carbon black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The International Agency for Research on Cancer (IARC) has recently reviewed carbon black and published a monograph changing its classification from insufficient evidence to make a determination to possible carcinogen.

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
ortho-tricresyl phosphates, isomer mixture	(CAS No) 1330-78-5	32.4	STOT SE 1, H370
carbon black	(CAS No) 1333-86-4	2.6	Carc. 2, H351
diethanolamine	(CAS No) 111-42-2	1.3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373
aniline	(CAS No) 62-53-3	0.1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

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### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

PrintMatic Porelon Fingerprint Ink Roller System		
ACGIH	Not applicable	
OSHA	Not applicable	
diethanolamine (111-42-2)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
OSHA	Not applicable	
ortho-tricresyl phosphates, isomer mixture (1330-78-5)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
OSHA	Not applicable	
carbon black (1333-86-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
aniline (62-53-3)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	2 ppm
OSHA	Not applicable	

### 8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection : Wear protective gloves.

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Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid paste.
Color	: Black
Odor	: hydrocarbon-like odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Insoluble in water. Water: Solubility in water of component(s) of the mixture : •: •: < 0.1 g/100ml •: < 0.01 g/100ml •: 3.5 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

diethanolamine (111-42-2)	
LD50 oral rat	620 mg/kg (Rat)
LD50 dermal rabbit	7640 mg/kg (Rabbit)
ATE US (oral)	620.000 mg/kg body weight
ATE US (dermal)	7640.000 mg/kg body weight

carbon black (1333-86-4)	
LD50 oral rat	> 8000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)

aniline (62-53-3)	
LD50 oral rat	250 mg/kg (Rat)
LD50 dermal rabbit	840 mg/kg (Rabbit)
ATE US (oral)	250.000 mg/kg body weight
ATE US (dermal)	840.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met  
Carcinogenicity : Suspected of causing cancer.

diethanolamine (111-42-2)	
IARC group	3 - Not classifiable

carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans

aniline (62-53-3)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met  
Specific target organ toxicity (single exposure) : Causes damage to organs.  
Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.  
Aspiration hazard : Not classified  
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

diethanolamine (111-42-2)	
LC50 fish 1	1664 mg/l (96 h; Pimephales promelas; Static system)
EC50 Daphnia 1	180 mg/l (24 h; Daphnia magna)
LC50 fish 2	14000 mg/l (96 h; Gambusia affinis; Static system)
EC50 Daphnia 2	55 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	10 mg/l (192 h; Scenedesmus quadricauda; Inhibitory)

ortho-tricresyl phosphates, isomer mixture (1330-78-5)	
LC50 fish 1	0.15 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 11 mg/l
LC50 fish 2	0.26 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)

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<b>ortho-tricresyl phosphates, isomer mixture (1330-78-5)</b>	
TLM fish 1	1 - 10,96 h; Pisces
TLM other aquatic organisms 1	1 - 10,96 h
Threshold limit other aquatic organisms 1	10 - 11

<b>carbon black (1333-86-4)</b>	
LC50 fish 1	> 1000 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	> 5600 mg/l (24 h; Daphnia magna)

<b>aniline (62-53-3)</b>	
LC50 fish 1	32 - 53 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 1	0.17 mg/l (48 h; Daphnia magna; Static system)
EC50 other aquatic organisms 1	> 100 mg/l (Activated sludge; Inhibitory)
LC50 fish 2	10.6 - 41 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 1	8.3 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	10 mg/l (96 h; Selenastrum capricornutum; Growth)

### 12.2. Persistence and degradability

<b>PrintMatic Porelon Fingerprint Ink Roller System</b>	
Persistence and degradability	Not established.

<b>diethanolamine (111-42-2)</b>	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.22 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.52 g O <sub>2</sub> /g substance
ThOD	2.13 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.10 % ThOD

<b>carbon black (1333-86-4)</b>	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>aniline (62-53-3)</b>	
Persistence and degradability	Readily biodegradable in water. Photodegradation in water. Biodegradable in the soil.
BOD (% of ThOD)	0.62 % ThOD

### 12.3. Bioaccumulative potential

<b>PrintMatic Porelon Fingerprint Ink Roller System</b>	
Bioaccumulative potential	Not established.

<b>diethanolamine (111-42-2)</b>	
Log Pow	-2.18 - -1.43 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.

<b>ortho-tricresyl phosphates, isomer mixture (1330-78-5)</b>	
BCF fish 1	166
Log Pow	3.42 - 5.11
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).

<b>carbon black (1333-86-4)</b>	
Bioaccumulative potential	Not bioaccumulative.

<b>aniline (62-53-3)</b>	
BCF fish 1	2.6 (Brachydanio rerio)
BCF fish 2	< 10 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	4 (24 h; Chlorella sp.; Fresh weight)
BCF other aquatic organisms 2	91 (24 h; Selenastrum capricornutum)
Log Pow	0.9 - 0.98 (Experimental value)

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aniline (62-53-3)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

carbon black (1333-86-4)	
Ecology - soil	Not toxic to plants. Not toxic to animals.

aniline (62-53-3)	
Surface tension	0.043 N/m (20 °C)

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

PrintMatic Porelon Fingerprint Ink Roller System
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R39/23/24/25

N; R51/53

Full text of R-phrases: see section 16

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### National regulations

#### PrintMatic Porelon Fingerprint Ink Roller System

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

#### PrintMatic Porelon Fingerprint Ink Roller System

U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

## SECTION 16: Other information

Indication of changes	: Revision - See : *
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation. None.

### Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

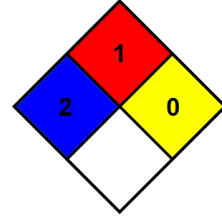


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- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



- HMIS III Rating
- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal Protection : G  
G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.*