



DIAGNOSTIC BIOSYSTEMS

Safety Data Sheet Elite PAP Pen, Elite Mini PAP Pen (OSHA)

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Elite PAP Pen, Elite Mini PAP Pen (OSHA) E
Product number	K039, K042
Brand	Elite PAP Pen, Elite Mini PAP Pen

1.3 Recommended use of the chemical and restrictions on use In Vitro Diagnostic Use

1.4 Supplier's details

Name	Diagnostic Biosystems
Address	6616 Owens Drive Pleasanton CA 94588 USA
Telephone	(888) 896-3350
email	customersupport@dbiosys.com

1.5 Emergency phone number

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

SECTION 2: Hazard identification

General hazard statement

For Professional Users Only

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Carcinogenicity (C.4.9), Cat. 1B
- Germ cell mutagenicity (C.4.8), Cat. 1B
- Skin corrosion/irritation (C.4.4), Cat. 2
- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2
- Specific target organ toxicity (single exposure) (C.4.11), Cat. 3
- Toxic to reproduction (C.4.10), Cat. 2

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2.2 GHS label elements, including precautionary statements

Pictogram



1. Health hazard; 2. Exclamation mark

Signal word

Danger

Hazard statement(s)

H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to a licensed disposal company.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

1. Toluene

Concentration < 35 % (volume)

Other names / synonyms ; ANTISAL 1A; Benzene, methyl-; METHACIDE; METHANE, PHENYL-; METHYLBENZENE; METHYLBENZOL; NCI-C07272; PHENYLMETHANE; RCRA WASTE NUMBER U220; TOLU-SOL; Toluene ; TOLUOL; UN 1294

EC no. 203-625-9
CAS no. 108-88-3
Index no. 601-021-00-3

- Flammable liquids (C.4.19), Cat. 2
- Toxic to reproduction (C.4.10), Cat. 2

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- Aspiration hazard (C.4.13), Cat. 1
- Specific target organ toxicity (single exposure) (C.4.11), Cat. 3
- Specific target organ toxicity (repeated exposure) (C.4.12), Cat. 2
- Skin corrosion/irritation (C.4.4), Cat. 2

H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361d	
H373	May cause damage to organs through prolonged or repeated exposure

2. Solvent naphtha (petroleum), light arom

Concentration < 30 % (volume)

Other names / synonyms Naphtha (petroleum), light, C5-rich, sweetened; Naphtha (petroleum), sweetened light; Solvent naphtha (petroleum), light arom.

EC no. 292-695-4

CAS no. 90989-39-2

Index no. 649-403-00-9

- Carcinogenicity (C.4.9), Cat. 1B
- Germ cell mutagenicity (C.4.8), Cat. 1B
- Aspiration hazard (C.4.13), Cat. 1

H304	May be fatal if swallowed and enters airways
H340	May cause genetic defects
H350	May cause cancer

3. Resin

Concentration < 35 % (volume)

CAS no. N/A

Index no. N/A

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Personal protective equipment for first-aid responders	Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

No data available.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

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6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 108-88-3

Toluene

ACGIH: 20 ppm (75 mg/m³) TLV® inhalation; See Annotated Z-2 TLV® inhalation; Cal/OSHA: See Annotated Z-2 PEL inhalation; 500 ppm Ceiling PEL-C inhalation; 150 ppm (560 mg/m³) - SKIN PEL-ST inhalation; 10 ppm (37 mg/m³) TWA inhalation; NIOSH: 100 ppm (375 mg/m³) REL inhalation; See Annotated Z-2 REL inhalation; 150 ppm (560 mg/m³) STEL inhalation; OSHA: See Annotated Z-2 mg/m³ PEL inhalation; 300 ppm PEL-C inhalation; 500 ppm (10 minutes) PEL-Peak inhalation; 200 ppm PEL-TWA inhalation; 150 ppm STEL inhalation

8.2 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available

Control banding approach

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Solid
Appearance	Pen
Color	Not Applicable
Odor	Odorless
Odor threshold	No data available.
pH	No data available
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

The ATE (gas inhalation) of the mixture is: 30000 ppmV

Toluene

LD50 Oral - Rat - > 5,580 mg/kg

Skin corrosion/irritation

Toluene

LD50 Skin - Rabbit - 12,196 mg/kg

Toluene

Skin - Rabbit - 24 h

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Toluene

EC50 - Pseudokirchneriella subcapitata (green algae) - 10 mg/l - 24 h

Toluene

LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h

Toluene

EC50 - Daphnia magna (water flea) - 6 mg/l - 48 h

Toluene

EC50 - Chlorella vulgaris (fresh water algae) - 245 mg/l - 24 h

Toluene

NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Toluene

EC50 - Pseudokirchneriella subcapitata (green algae) - 10 mg/l - 24 h

Toluene

LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h

Toluene

EC50 - Daphnia magna (water flea) - 6 mg/l - 48 h

Toluene

EC50 - Chlorella vulgaris (fresh water algae) - 245 mg/l - 24 h

Toluene

NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

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No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging disposal

Dispose of as unused product.

Waste treatment

No data available

Sewage disposal

Do not let product enter drains

Other disposal recommendations

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

State of California to cause birth defects or other reproductive harm.

Chemical name: Toluene

CAS number: 108-88-3

01/01/1991 - Developmental toxicity

08/07/2009 - Female reproductive toxicity (de-listed 03/07/2014)

01/01/1991 - developmental

08/07/2009 - female

Canadian Domestic Substances List (DSL)

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Chemical name: Benzene, methyl-
CAS: 108-88-3

Chemical name: Naphtha (petroleum), light, C5-rich, sweetened
CAS: 92045-60-8

Massachusetts Right To Know Components

Chemical name: Toluene
CAS number: 108-88-3

New Jersey Right To Know Components

Chemical name: Toluene
CAS number: 108-88-3

Pennsylvania Right To Know Components

Chemical name: Toluene
CAS number: 108-88-3

15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

SECTION 16: Other information

SDS-0054, Rev. E

16.1 Further information/disclaimer

DISCLAIMER: 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, express 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 information for their particular purposes. In no event shall Diagnostic BioSystems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Diagnostic BioSystems has been advised of the possibility of such damages.