

# Safety Data Sheet Mono AEC/Plus (EU)

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

#### 1.1 Product identifier

Product name Mono AEC/Plus (EU)

Product number K050, K050-110 Brand Mono AEC/Plus

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

In Vitro Diagnostic Use

# 1.3 Details of the supplier of the safety data sheet

Name Diagnostic Biosystems
Address 6616 Owens Drive
Pleasanton CA 94588

USA

Telephone (888) 896-3350

email customersupport@dbiosys.com

# 1.4 Emergency telephone number

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

# **SECTION 2: Hazards identification**

### General hazard statement

For Professional Users Only

## 2.1 Classification of the substance or mixture

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

- Acute toxicity, dermal (chapter 3.1), Cat. 4, H312
- Acute toxicity, inhalation (chapter 3.1), Cat. 4, H332
- Carcinogenicity (chapter 3.6), Cat. 1B, H350
- Serious eye damage/eye irritation (chapter 3.3), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2, H315
- Toxic to reproduction (chapter 3.7), Cat. 1A, H360
- Serious eye damage/eye irritation (chapter 3.3), Cat. 2
- Toxic to reproduction (chapter 3.7), Cat. 1B, H360
- Serious eye damage/eye irritation (chapter 3.3), Cat. 2

- Specific target organ toxicity following single exposure (chapter 3.8), Cat. 3, H335, H336
- Serious eye damage/eye irritation (chapter 3.3), Cat. 2, H319

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

#### 2.2 Label elements

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

## Hazard pictograms



1. Exclamation mark; 2. Health hazard

# Signal word Danger

Hazard	etatamante	

H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H360	May damage fertility or the unborn child

# **Precautionary statements**

D004	OL1-!	! . !		l f
P201	Ontain s	neciai	Instructions	before use.
1 201	Obtain 0	poolai	ii ioti aotioi io	DOIOLO GOO.

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

P261 Avoid breathing 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container to a licensed disposal company. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### 2.3 Other hazards

No other hazards identified

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

## **Hazardous components**

1. Methyl pyrrolidone

Concentration 5 - < 20 % (volume)

Other names / synonyms 2-Pyrrolidinone, 1-methyl-; N-methyl-2-pyrrolidone; N-Methylpyrrolidone

EC no. 212-828-1 CAS no. 872-50-4 Index no. 606-021-00-7

- Reproductive toxicity (chapter 3.7), Cat. 1B

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

Skin corrosion/irritation (chapter 3.2), Cat. 2
Eye damage/irritation (chapter 3.3), Cat. 2

H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation H360D May damage the unborn child SCLs/M-factors/ATEs STOT SE 3; H335:  $C \ge 10 \%$ 

2. 3-AMINO-9-ETHYLCARBAZOLE

Concentration 0.15 - < 0.3 % (weight)

Other names / synonyms 9H-Carbazol-3-amine, 9-ethyl-

EC no. 205-057-7 CAS no. 132-32-1 Index no. 612-280-00-7

- Carcinogenicity (chapter 3.6), Cat. 1B

H350 May cause cancer [route]

3. Sodium acetate

Concentration 0.1 - < 0.5 % (weight)

Other names / synonyms Acetic acid, sodium salt; Acetic acid, sodium salt (1:1); Natrii acetas; Sodium

acetate, anhydrous

CAS no. 127-09-3

4. Imidazole

Concentration 0.1 - < 0.5 % (weight)

Other names / synonyms 1H-Imidazole; EC no. 206-019-2 CAS no. 288-32-4 Index no. 613-319-00-0

- Reproductive toxicity (chapter 3.7), Cat. 1B

- Acute toxicity, oral (chapter 3.1), Cat. 4

- Skin corrosion/irritation (chapter 3.2), Cat. 1C

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H360D May damage the unborn child

5. Hydrogen peroxide

Concentration 0.1 - < 0.5 % (volume)

Other names / synonyms ALBONE; DIHYDROGEN DIOXIDE; HYDROGEN DIOXIDE; HYDROGEN

PEROXIDE; Hydrogen peroxide (H2O2); hydrogen peroxide solution;

hydrogen peroxide solution; HYDROGEN PEROXIDE SOLUTION; Hydrogen peroxide, and other compounds or mixtures that release hydrogen peroxide, including carbamide peroxide and zinc peroxide; Hydrogenii peroxidum; HYDROGENPEROXIDE; HYDROPEROXIDE; PEROXIDE; SUPEROXOL;

T-STUFF

EC no. 231-765-0 CAS no. 7722-84-1 Index no. 008-003-00-9

- Acute toxicity, inhalation (chapter 3.1), Cat. 4

- Acute toxicity, oral (chapter 3.1), Cat. 4 - Oxidizing liquids (chapter 2.13), Cat. 1

- Skin corrosion/irritation (chapter 3.2), Cat. 1A

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

SCLs/M-factors/ATEs Ox. Liq. 1; H271:  $C \ge 70 \%^{****}$ 

Ox. Liq. 2; H272: 50 % ≤ C < 70 % \*\*\*\*

\*

Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 %

Skin Irrit. 2; H315:  $35 \% \le C < 50 \%$ Eye Dam. 1; H318:  $8 \% \le C < 50 \%$ Eye Irrit. 2; H319:  $5 \% \le C < 8 \%$ STOT SE 3; H335;  $C \ge 35 \%$ 

### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

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

Following inhalation 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.

Following skin contact Rinse with plenty of water. Get medical attention if irritation develops and

persists.

Following eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical

attention if symptoms occur.

Following ingestion 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.

Self-protection of the first aider Ensure adequate ventilation. Use personal protective equipment. For

personal protection see section 8.

# 4.2 Most important symptoms and effects, both 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 any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Use extinguishing media appropriate for surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **Further information**

Use water spray to cool unopened containers.

# **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.

## 6.3 Methods and material 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).

#### 6.4 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.

### 7.3 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: 7722-84-1

Hydrogen peroxide

ACGIH (USA): 1 ppm TLV® inhalation; Cal/OSHA (USA): 1 ppm PEL inhalation; NIOSH (USA): 1 ppm REL inhalation; OSHA (USA): 1 ppm PEL inhalation; 1.4 mg/m3 PEL inhalation

# 8.2 Exposure controls

### Appropriate engineering controls

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

### Individual protection measures, such as personal protective equipment

## **Pictograms**







#### Eye and 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**

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**

## 9.1 Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear
Colour Amber
Odour None

Odour threshold No data available.

pH 5.5

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 Water

Partition coefficient n-octanol/water (log value)

Auto-ignition temperature

Decomposition temperature

Kinematic viscosity

Explosive properties

No data available.

#### Particle characteristics

No data available.

#### 9.2 Other information

# 9.2.1 Information with regard to physical hazard classes

No data available.

## 9.2.2 Other safety characteristics

No data available.

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

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

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Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

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Hydrogen peroxide: Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **Acute toxicity**

The ATE (dermal) of the mixture is: 1111.11 mg/kg bw

The ATE (gas inhalation) of the mixture is: 4500 ppmV

## Skin corrosion/irritation

Irritating to skin.

#### Serious eye damage/irritation

Causes serious eye irritation.

# Respiratory or skin sensitization

No data available.

# Germ cell mutagenicity

No data available.

## Carcinogenicity

May cause cancer

# Reproductive toxicity

May damage fertility or the unborn child.

### Summary of evaluation of the CMR properties

No data available.

## STOT-single exposure

No data available

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

### **Aspiration hazard**

May be harmful if swallowed and enters airways

# 11.2 Information on other hazards

# **Endocrine disrupting properties**

No data available.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

No data available.

## 12.2 Persistence and degradability

No data available.

# 12.3 Bioaccumulative potential

No data available.

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

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

# 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment 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**

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Maritime transport in bulk according to IMO instruments	None

# **SECTION 15: Regulatory information**

# 15.2 Chemical Safety Assessment

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

# **SECTION 16: Other information**

## Full text of hazard statements referenced in Section 2

H312 Harmful in contact with skin	
H315 Causes skin irritation	
H319 Causes serious eye irritation	
H332 Harmful if inhaled	
H335 May cause respiratory irritation	
H336 May cause drowsiness or dizziness	
H350 May cause cancer	
H360 May damage fertility or the unborn of	hild

SDS-0015, Rev. D

### Further information/disclaimer

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