

# **Safety Data Sheet** PermaBlue™ Plus/AP (EU)

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

#### 1.1 **Product identifier**

Product name PermaBlue™ Plus/AP (EU)

Product number K058, K058-110 **Brand** PermaBlue™ Plus/AP

Other means of identification COMPONENT 1 (K058C) COMPONENT 2 (K058B)

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

In Vitro Diagnostic Use

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

Diagnostic Biosystems Name Address 6616 Owens Drive

Pleasanton CA 94588

USA

Telephone (888) 896-3350

email customersupport@dbiosys.com

# **Emergency telephone number**

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

## **SECTION 2: Hazards identification**

#### **General hazard statement**

For Professional Users Only

#### Classification of the substance or mixture 2.1

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

- Acute toxicity, dermal (chapter 3.1), Cat. 3, H311
- Acute toxicity, inhalation (chapter 3.1), Cat. 2, H330
- Acute toxicity, inhalation (chapter 3.1), Cat. 3, H331

- Acute toxicity, oral (chapter 3.1), Cat. 3, H301
- Specific target organ toxicity following single exposure (chapter 3.8), Cat. 1, H370
- Toxic to reproduction (chapter 3.7), Cat. 1A, H360
- Toxic to reproduction (chapter 3.7), Cat. 1B, H360

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. Skull and crossbones; 3. Health hazard

Signal word	Danger
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Hazard	statements
nazaiu	Statements

H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
H370	Causes damage to organs

Precautionary statements	
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.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
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.

Dispose of contents/container to a licensed disposal company.

#### 2.3 Other hazards

P501

No other hazards identified.

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

#### 3.2 Mixtures

# Components

Component 1.

1. Methyl alcohol

Concentration < 99 % (volume)

Other names / synonyms CARBINOL; COLONIAL SPIRIT; COLUMBIAN SPIRIT; Methanol; METHYL

HYDROXIDE; METHYLALCOHOL; METHYLOL;

MONOHYDROXYMETHANE; NA 1230 (DOT); PYROXYLIC SPIRIT; RCRA WASTE NUMBER U154; UN 1230 (DOT); WOOD ALCOHOL; WOOD

NAPHTHA; WOOD SPIRIT

EC no. 200-659-6 CAS no. 67-56-1 Index no. 603-001-00-X

- Flammable liquids (chapter 2.6), Cat. 2 - Acute toxicity, inhalation (chapter 3.1), Cat. 3

- Acute toxicity, dermal (chapter 3.1), Cat. 3 - Acute toxicity, oral (chapter 3.1), Cat. 3

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1

H225 Highly flammable liquid and vapor

H301 Toxic if swallowed
H311 Toxic in contact with skin

H331 Toxic if inhaled

H370 Causes damage to organs [organs, route]

SCLs/M-factors/ATEs

STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %

#### 2. 2-METHOXYETHANOL

Concentration < 5 % (volume)

Other names / synonyms Ethanol, 2-methoxy-; Ethylene glycol monomethyl ether

EC no. 203-713-7 CAS no. 109-86-4 Index no. 603-011-00-4

- Flammable liquids (chapter 2.6), Cat. 3

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

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

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

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

H226 Flammable liquid and vapor H302 Harmful if swallowed H312 Harmful in contact with skin

H332 Harmful if inhaled

H360FD May damage fertility. May damage the unborn child.

Component 2.

1.. Naphthol-AS-TR-Phosphate

Concentration < 0.2 % (weight) CAS no. 4264-93-1

2. Reaction mass of: 5-Chloro-2-methyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)

Concentration < 0.1 % (volume)

Other names / synonyms 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-

isothiazolone; Kathon 886;

EC no. –

CAS no. 55965-84-9 Index no. 613-167-00-5

- Acute toxicity, inhalation (chapter 3.1), Cat. 2

- Acute toxicity, dermal (chapter 3.1), Cat. 2

- Acute toxicity, oral (chapter 3.1), Cat. 3

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

- Eye damage/irritation (chapter 3.3), Cat. 1

- Sensitization - skin (chapter 3.4), Cat. 1A

- Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1

H301 Toxic if swallowed
H310 Fatal in contact with skin

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H330 Fatal if inhaled

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

SCLs/M-factors/ATEs Skin Corr. 1C; : C ≥ ,6 %

Skin Irrit. 2; H315: ,06 % ≤ C < ,6 %

Eye Dam. 1; : C ≥ ,6 %

Eye Irrit. 2; H319:  $,06 \% \le C < ,6 \%$ Skin Sens. 1A; :  $C \ge ,0015 \%$ 

M=100 M=100

# 3. 2-[[]4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol

 Concentration
 < 0.1 % (volume)</td>

 EC no.
 618-344-0

 CAS no.
 9002-93-1

## **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

\_\_\_\_

Methanol: Carbon oxides

\_\_\_\_

Reaction mass of: 5-Chloro-2-methyl4- isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1): Carbon oxide. Nitrogen oxides.

# 5.3 Advice for firefighters

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.

## 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: 109-86-4

2-METHOXYETHANOL

Cal/OSHA: 5 ppm PEL inhalation; NIOSH: 0.1 ppm REL inhalation; OSHA: 25 ppm PEL inhalation; 80 mg/m3 PEL inhalation

# CAS: 67-56-1 (EC: 200-659-6)

Methyl alcohol

ACGIH: 200 ppm TLV® inhalation; 250 ppm (ST) TLV® inhalation; Cal/OSHA: 1000 ppm PEL-C inhalation; 250 ppm PEL-ST inhalation; 200 ppm PEL-TWA inhalation; NIOSH: 250 ppm PEL-ST inhalation; 200 ppm REL-TWA inhalation; OSHA: 200 ppm, 260 mg/m3 PEL-TWA 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 Not Applicable

Odour Odorless

Odour threshold No data available. PH Not Applicable

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.

No data available.

Density and/or relative density

No data available.

Solubility

No data available.

Partition coefficient n-octanol/water (log value)

Auto-ignition temperature

No data available.

No data available.

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Decomposition temperature Kinematic viscosity Explosive properties Oxidizing properties No data available. No data available. No data available. 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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Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

# 10.6 Hazardous decomposition products

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

# **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: 298.91 mg/kg bw

The ATE (dusts-mists inhalation) of the mixture is: 0.5 mg/l

The ATE (gas inhalation) of the mixture is: 701.56 ppmV

The ATE (oral) of the mixture is: 100 mg/kg bw

Methanol

LD50 Oral - Rat - 1,187 - 2,769 mg/kg

#### Skin corrosion/irritation

Methanol

LD50 Skin - Rabbit - 17,100 mg/kg

### Serious eye damage/irritation

Causes serious eye irritation.

## Respiratory or skin sensitization

Methanol

LD50 Inhalation - Rat - 128.2 mg/l - 4 h

Methanol

LD50 Inhalation - Rat - 87.6 mg/l - 6 h

# 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.

#### 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.

#### 11.2 Information on other hazards

# **Endocrine disrupting properties**

No data available.

## Other information

No data available.

# **SECTION 12: Ecological information**

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#### 12.1 Toxicity

Methanol

LC50 - Lepomis macrochirus (bluegill) - 15.400 mg/l - 96 h

Methanol

NOEC - Oryzias latipes - 7.900 mg/l - 200 h

Methanol

EC50 - Daphnia magna (water flea) - >10,000 mg/l - 48 h

Methanol

EC50 - Selenastrum capricornutum (green algae) - 22,000 mg/l - 96 h

## 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

No data available.

# **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

UN1230

14.2 UN Proper Shipping Name

Methanol

14.3 Transport hazard class(es)14.4 Packing group3 (6.1)II

#### 14.5 Environmental hazards

Marine pollutant

# 14.6 Special precautions for user

For professional users only.

Should not be released into the environment.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not shipped in bulk

# **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

H301 Toxic if swallowed
H311 Toxic in contact with skin

H330 Fatal if inhaled H331 Toxic if inhaled

H360 May damage fertility or the unborn child

H370 Causes damage to organs

SDS-0075, Rev. C

# Further information/disclaimer

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