

Safety Data Sheet PermaBlue™ Plus/AP (OSHA)

SECTION 1: Identification

1.1 GHS Product identifier

Product name

PermaBlue™ Plus/AP (OSHA)

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

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

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

1.4 Supplier's details

Name Address Diagnostic Biosystems 6616 Owens Drive Pleasanton CA 94588 USA

Telephone email (888) 896-3350 customersupport@dbiosys.com

1.5 Emergency phone number

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

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

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

- Acute toxicity, dermal (C.4.2), Cat. 3
- Acute toxicity, inhalation (C.4.3), Cat. 2
- Acute toxicity, inhalation (C.4.3), Cat. 3
- Acute toxicity, oral (C.4.1), Cat. 3
- Specific target organ toxicity (single exposure) (C.4.11), Cat. 1
- Toxic to reproduction (C.4.10), Cat. 1A

2.2 GHS label elements, including precautionary statements

Pictogram



1. Exclamation mark; 2. Skull and crossbones; 3. Health hazard

Hazard statement(s)H301Toxic if swallowedH311Toxic in contact with skinH311Toxic in contact with skinH311May cause an allergic skin reactionH330Fatal if inhaledH331Toxic if inhaledH332Harmful if inhaledH360May damage fertility or the unborn child.H370Causes damage to organs.Precautionary statement(s)P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P266Do not breathe dust/fume/gas/mist/vapors/spray.P261Avoid breathing dust/fume/gas/mist/vapors/spray.P264Wash hands thoroughly after handling.P270Do not eat, drink or smoke when using this product.P271Use only outdoors or in a well-ventilated area.P284[In case of inadequate ventilation] wear respiratory protection.P301+P310IF SWALLOWED: Immediately call a POISON CENTER/doctor.P304+P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P304+P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P311IF skin irritation or rash occurs: Get medical advice/attention.P330Rinse mouth.P334+P343If skin irritation or rash occurs: Get medical advice/attention.P310Binse irritated place. Keep container tighty closed.P304+P343Store in a well-ventilated place. Keep container tighty closed.P304+P344Take off immediately all contaminate	Signal word	Danger
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•	P403+P233	
P501 Dispose of contents/container to a licensed disposal company.		•
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Component 1. 1. Methyl alcohol Concentration

< 99 % (volume)

Safety Data Sheet PermaBlue[™] Plus/AP (OSHA)

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 (C.4.19), Cat. 2

- Acute toxicity, inhalation (C.4.3), Cat. 3
- Acute toxicity, dermal (C.4.2), Cat. 3
- Acute toxicity, oral (C.4.1), Cat. 3
- Specific target organ toxicity (single exposure) (C.4.11), 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 %

Component 2. **1. 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 (C.4.19), Cat. 3

- Toxic to reproduction (C.4.10), Cat. 1B
- Acute toxicity, inhalation (C.4.3), Cat. 4
- Acute toxicity, dermal (C.4.2), Cat. 4
- Acute toxicity, oral (C.4.1), 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.

2. Naphthol-AS-TR-Phosphate

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

3

. Reaction mass of: 5-Chloro-2-meth	nyl4- 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 (C.4.3), Cat. 2

- Acute toxicity, dermal (C.4.2), Cat. 2
- Acute toxicity, oral (C.4.1), Cat. 3
- Skin corrosion/irritation (C.4.4), Cat. 1C
- Eye damage/irritation (C.4.5), Cat. 1
- Sensitization, skin (C.4.7), 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 % ≤ C < ,6 %
	Skin Sens. 1A; : C ≥ ,0015 %
	M=100
	M=100

5. 2-[[]4-(2,4,4-trimethylpentan-2-yl)phenoxy]ethanol

Concentration	 < 0.1 % (volume)
EC no.	618-344-0
CAS no.	9002-93-1

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.

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

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 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.

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: 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 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

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

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

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

Information on toxicological effects

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.

Additional information

No data available.

SECTION 12: Ecological information

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

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil 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)

UN Number: UN1230 Class: 3 (6.1) Packing Group: II Proper Shipping Name: Methanol Reportable quantity (RQ): Marine pollutant: Poison inhalation hazard:

IMDG

UN Number: UN1230 Class: 3 (6.1) Packing Group: II EMS Number: Proper Shipping Name: Methanol

ΙΑΤΑ

UN Number: UN1230 Class: 3 (6.1) Packing Group: II Proper Shipping Name: Methanol

SECTION 15: Regulatory information

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

California Prop. 65 Components

Chemical name: Methanol CAS number: 67-56-1 03/16/2012 - Developmental toxicity

Chemical name: 2-METHOXYETHANOL CAS number: 109-86-4 01/01/1989 - Developmental toxicity 01/01/1989 - Male reproductive toxicity

Canadian Domestic Substances List (DSL)

Chemical name: Methanol CAS: 67-56-1

Chemical name: Ethanol, 2-methoxy-CAS: 109-86-4

Chemical name: 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone CAS: 55965-84-9

Massachusetts Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

Chemical name: 2-Methoxyethanol CAS number: 109-86-4

New Jersey Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

Common name: 2-METHOXYETHANOL CAS number: 109-86-4

Pennsylvania Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

Chemical name: Ethanol, 2-methoxy-CAS number: 109-86-4

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

SDS-0075, Rev. C

16.1 Further information/disclaimer

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