

## **SECTION 1 – IDENTIFICATION**

**Product Identifier:** 2X PCR Master Mix

Molecular Biology Grade

Catalogue Number: 5180

#### Recommended use of the chemical and restrictions on use:

Routine PCR amplification of DNA fragments up to 5 kb. Generation of PCR product for TA cloning. DNA labeling. DNA sequencing.

For R&D use only. Not for pharmaceutical, household or other uses.

# **Supplier Information:**

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#### **Emergency phone number:**

Monday – Friday, 8:00 a.m. to 6:00 p.m.

+65 6775 7318 (Singapore)

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# **SECTION 2 – HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Other Hazards - None

# **SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical characterization: Mixture

**Chemical Identity:** Glycerol **Synonyms:** Glycerin

1,2,3-propanetriol

glycol alcohol

Molecular Formula: $C_3H_8O_3$ Molecular Weight:92.10 g/molCAS No.:56-81-5EC No.:200-289-5

#### Other Components:

Components of mixture that are not listed are not hazardous to health or the environment within the meaning of GHS, and/or are present below their cut-off levels.



## **SECTION 4 - FIRST-AID MEASURES**

# **Eye Contact**

Flush eyes with water as a precaution.

#### **Skin Contact**

Immediately wash skin thoroughly with soap and copious amounts of water.

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

#### Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Indication of immediate medical attention and special treatment needed

Data not available.

## **SECTION 5 - FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.

# **Special Exposure Hazards**

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

# **Special Fire-fighting Procedures**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

# **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions**

Use personal protective equipment. Prevent skin/eye contact.

#### **Environmental Precautions**

Do not allow material into sewers and drainage systems.

# **Methods for Cleaning Up**

Clean up spills immediately, observing precautions in the safety data sheet and label. Dispose into a chemical waste container.

# **SECTION 7 – HANDLING AND STORAGE**

## Precautions for safe handling

Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes.



# Conditions for safe storage, including any incompatibilities

Store in tightly closed container at -20°C.

# **SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

Component	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	PEL (long-term)	10 mg/m³	Singapore. Workplace Safety and Health Act – First Schedule Permissible Exposure Limits of Toxic Substances

# **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice.

#### **Eye/ Face Protection**

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

## **Skin/ Hand 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **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).

# **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

a)	Appearance	Colourless solution
b)	Odour	Odourless
c)	Odour Threshold	Not available
d)	pH (Neat, 25 °C)	Not available
e)	Melting/freezing point	Not available



f)	Initial boiling point and boiling range	Not available
g)	Flash point	Not available
h)	Evaporation rate	Not available
i)	Flammability (solid, gas)	Not available
j)	Upper/lower flammability or explosive limits	Not available
k)	Vapour pressure (mm Hg)	Not available
l) m)	Vapour density Relative density	Not available Not available
n)	Water solubility	Not available
o)	Partition coefficient: n-octanol/water	Not available
p)	Autoignition temperature	Not available
q)	Decomposition temperature	Not available
r)	Viscosity	Not available

# **SECTION 10 – STABILITY AND REACTIVITY**

# Reactivity

Data not available.

# **Chemical stability**

Stable.

# Possibility of hazardous reactions

Data not available.

# **Conditions to avoid**

Data not available.

# Incompatible material

Data not available.

# **Hazardous decomposition products**

Data not available.



## **SECTION 11 – TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

Data not available.

## Skin corrosion/irritation

Data not available.

## Serious eye damage/eye irritation

Data not available.

# Respiratory or skin sensitization

Data not available.

## Germ cell mutagenicity

Data not available.

# Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# Reproductive toxicity

Data not available.

# Specific target organ toxicity – single exposure

Data not available.

# Specific target organ toxicity - repeated exposure

Data not available.

#### **Aspiration hazard**

Data not available.

#### Other information

RTECS: Not available

# **SECTION 12 - ECOLOGICAL INFORMATION**

# **Toxicity**

Data not available.

# Persistence and degradability

Data not available.

# **Bioaccumulative potential**

Data not available.

## Mobility in soil

Data not available.

#### Other adverse effect

Data not available.



## **SECTION 13 - DISPOSAL CONSIDERATIONS**

#### **Product**

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

# Contaminated packaging

Dispose off as unused product.

# **SECTION 14 - TRANSPORT INFORMATION**

**UN Number** 

ADR/RID: - IMDG: - IATA-DGR: -

**UN Proper Shipping Name:** 

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods

**Transport Hazard Class(es)** 

ADR/RID: - IMDG: - IATA-DGR: -

**Packing Group** 

ADR/RID: - IMDG: - IATA-DGR: -

**Environmental Hazards** 

ADR/RID: no IMDG: marine pollutant: no IATA-DGR: no

# **Special Precaution for Users**

Data not available

# **SECTION 15 - REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture Data not available.

# **SECTION 16 - OTHER INFORMATION**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.