

Safety Data Sheet

Precision Plus, Precision Plus OneStep and PrecisionFAST MasterMix SDS

Date of Issue 07th June 2024

Product Components:

1. OneStep MasterMix / Standard MasterMix / Fast MasterMix

ISSUED TO MEET THE REQUIREMENTS OF REGULATION (EC) 1907/2006: ARTICLE 31

SECTION 1: Identification of the substance and of the Company/undertaking

Component Identifier: 1. Standard / OneStep / Fast MasterMix		Name: MasterMix	
Product Use: Real-time PCR test			
Manufacturer's Name: Primerdesign Limited			
Manufacturer's Address: York House, School Lane, Chandlers Ford, United Kingdom			
Postal Code: S053 4DG	Emergency Telephone: +44 (0) 800 0156 494	Fax: +44 (0) 8708 362 155	
Hours of Operation: 09:00-17:30 UK time		Email: support@primerdesign.co.uk	

SECTION 2: Hazards Identification

2.1 Classifications

Classification of the substance or mixture: Not a hazardous substance or mixture.

Classification according to Regulation (EC) No 1272/2008: Not a hazardous substance or mixture.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not a hazardous substance or mixture.

Information concerning particular hazards for human and environment: None

Other hazards that do not result in classification: None

2.2. Labelling

Labelling according to Regulation (EC) No 1272/2008: None

SECTION 3: Composition/Information on Ingredients

Components	CAS Number/EC Number	Weight
(NH ₄) ₂ SO ₄	7783-20-2/231-984-1	< 10 %
KCL	7447-40-7/231-211-8	< 10 %
EGTA	67-42-5/200-651-2	< 10 %
TRIZMA	77-86-1/201-064-4	< 10 %
Glycerol	56-81-5/200-289-5	< 10 %
Recombinant human serum albumin	70024-90-7/274-272-6	< 5%

SECTION 4: First aid measures

EYE CONTACT: Wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention

INGESTION: Get medical attention.

INHALATION: Remove from exposure area to fresh air immediately. Get medical attention immediately.

Equipment to be available at the workplace for specific and immediate treatment: Eye-washing and skin-washing facilities.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

5.2 Special hazards arising from the substance or mixture

None known to exist

5.3. Advice for firefighters No special advice

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions:

None

6.3. Methods and material for containment and cleaning up:

Absorb with liquid binding material.

Wear appropriate protective clothing and chemically compatible gloves, Place spillage in appropriate container for waste disposal. Wash contaminated clothing before reuse.

SECTION 7: Handling and storage

7.1. Handling

Observe all federal, state and local regulations. Do not breathe dust. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep tightly closed.

7.2. Storage

Store at -20°C . Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: Exposure controls/personal Protection

8.1. Exposure Limit Values

56-81-5 - glycerol

WEL Long-term value: 10 mg/m^3

8.2. Exposure Controls

8.2.1. Occupational

Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

EYE PROTECTION: Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

CLOTHING: Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.

GLOVES: Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: Physical and chemical properties

Appearance: Liquid

pH: 8.5

Odour: Odourless

Density: Not known

Boiling Point: Not Known

Melting Point: Not Known

SECTION 10: Stability and Reactivity

10.1. Stability:

Stable under recommended storage conditions.

10.2. Materials/Conditions to avoid:

No data available

10.3. Incompatible Materials: No data available

10.4. Hazardous decomposition products: None

SECTION 11: Toxicological Information

11.1. Acute toxicity:

TRIZMA (77-86-1)

Acute toxicity

LD50 Oral - Rat - female - > 5,000 mg/kg

(OECD Test Guideline 425)

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 5,000 mg/kg

(OECD Test Guideline 402)

11.2. Sensitisation —skin:

TRIZMA (77-86-1)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h
(OECD Test Guideline 404)

Respiratory or skin sensitization

No data available

11.3 Serious eye damage/irritation

TRIZMA (77-86-1)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation
(OECD Test Guideline 405)

SECTION 12: Ecological Information:

Toxicity

TRIZMA (77-86-1)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 980 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to bacteria

static test EC50 - activated sludge - > 1,000 mg/l - 3 h (OECD Test Guideline 209)

Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d Result: 97.1 % - Readily biodegradable. (OECD Test Guideline 301F)

Bio accumulative 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

Other adverse effects: No data available

SECTION 13: Disposal Considerations

Dispose of according to any local, national or regional regulations.

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

Contaminated packaging: Dispose of as unused product

SECTION 14: Transport Information

UN Number: Not applicable

Proper shipping name: Not applicable

Class: Not applicable

Packing Group: Not applicable

SECTION 15: Regulatory Information

Health, safety or environmental information is not required on the label (according to Regulation (EC) No 1272/2008)

SECTION 16: Other Information

16.1. Recommended restrictions on use: None

16.2. Sources of information used to compile this sheet

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals (REACH): Article 31: Requirements for safety data sheets, and Annex II: Guide to the compilation of safety data sheets, OJL, 1 361 29.52007, pp 35-36 and pp 84-89.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, and amending Directive 67/548/EEC and Regulation (EC) No 1907/2006 (in short CLP).

Commission Decision 2000/532/EC establishing a list of wastes pursuant to Article 1 (a) of Directive 75/442/EEC on Waste and Article 1 (4) of Directive 91/689/EEC on Hazardous Waste. CONSLEG: 2000D0532-01/01/2002, Office for Official Publications of the European Communities.

Approved Supply List (8th edition), Information provided for the classification and labelling of substances and preparations for supply, United Kingdom Health and Safety Commission, 2005 (based on Annex I of 67/548/EEC).

Directive 98/79/EC of the European Parliament and of the Council on in vitro diagnostic medical devices, Annex I, Essential Requirements, OJ L, 331, 7.12.98, p 20.

List of approved workplace exposure limits, Table 1 of EH40/2005, United Kingdom Health and Safety Commission, 2ND edition published 201 1, implementing the European Commission's Indicative Occupational Exposure Limit Values Directive 2009/161/EU.

16.3. Changes from previous version .

All sections: First Version

The above information is based on data available and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it shall make their own determinations of the effects, properties and protections which pertain to their particular conditions.

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