

2X qPCR Mix

1.0 Identification

Product identifier

Product Name: 2X qPCR Mix Hot Start

Other means of identification

Product No. Bi2M-2xqPCR

Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only

Restrictions on use No Information available

Details of the supplier of the safety data sheet

Supplier Address: Bio-Mine Scientific Ltd.
100 Pacific Ave.
Sudbury, ON. P3C 3H9
Canada

Company Phone Number 705-222-2847

E-mail address info@biomine.ca

Emergency telephone number

24 Hour Emergency Phone Number 705-222-2847 xt 101

2.0 Hazard(s) identification

Classification

Not classified

Appearance: Blue

Physical state: Liquid

Odor: Slight

Label elements

Hazard Statements Not classified

Other information

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3.0 Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No.	Weight - %	Hazardous Material Information Review Act Registry Number (HMIRA registry #)	Date HMIRA files and date exemption granted (if applicable)
Glycerol	56-81-5	5 - 10	-	-

4.0 First-aid measures

Description of first aid measures

Inhalation

Remove to fresh air

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water

Ingestion

Clean mouth with water and drink plenty of water afterwards

Most important symptoms and effects, both acute and delayed

Symptoms

No information available

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically

5.0 Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient

Specific hazards arising from the chemical

No information available

Explosion data

Sensitivity to mechanical impact

None

Sensitivity to static discharge

None

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment

6.0 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so

Methods for cleaning up

Pick up and transfer to properly labeled containers

7.0 Handling and storage

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place

8.0 Exposure controls/personal protection

Control parameters

Exposure limits

Chemical name	CAS	OSHA PEL	ACGIH TLV
Glycerol	56-81-5	TWA 15 mg/m ³	TWA 10 mg/m ³

*TWA = Time-Weighted Average

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles)

Skin and body protection

Wear suitable protective clothing

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice

9.0 Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Liquid

Appearance

Blue

Odor

Slight

Odor threshold

No information available

Property	Values	Remarks, Method
pH	8.0	
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air	No data available	None known
Vapor Pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known

Other Information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Liquid density	No information available
Bulk density	No information available

10.0 Stability and Reactivity

Reactivity	No information available
Chemical stability	Stable under normal condition
Possibility of hazardous reactions	None under normal processing
Conditions to avoid	None known based on information supplied
Incompatible materials	None known based on information supplied
Hazardous decomposition products	None known based on information supplied

11.0 Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available
Eye contact	Specific test data for the substance or mixture is not available
Skin contact	Specific test data for the substance or mixture is not available
Ingestion	Specific test data for the substance or mixture is not available

Symptoms related to the physical, chemical and toxicological

Symptoms No information available

Acute toxicity

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
 5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerol	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available

Serious eye damage/eye irritation No information available

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available

Carcinogenicity No information available

Reproductive toxicity No information available

STOT – single exposure No information available

STOT – repeated exposure No information available

Aspiration hazard No information available

12.0 Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycerol	-	LC50: 51 – 57 mL/L (96h, Oncorhynchus mykiss)	-	EC50: >500 mg/mL (24h, Daphnia magna)

Persistence and degradability No information available

Bioaccumulation There is no data for this product

Component information

Chemical name	Partition coefficient
Glycerol	-1.76

Other adverse effects No information available

13.0 Disposal considerations

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation

Contaminated packaging

Do not reuse empty containers

14.0 Transport information

DOT	Not regulated
TDG	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15.0 Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classification. Under the amended regulation at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355) There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

US EPA Label information

EPA Pesticide Registration Number

Not applicable

16.0 Other information

Revision date

05/11/2022

Prepare by

Bio-Mine Scientific

Revision note

SDS is valid 3 years from revision date. Contact info@biomine.ca for latest revision.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release and should not be taken as a warranty or quality specification. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless specified in the text. Bio-Mine Scientific. will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet