

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Revision date 27-Oct-2021 Revision Number 1

1. IDENTIFICATION

Product identifier

Product Name MICROBEAD SUSPENSION - #10256

Other means of identification

Safety data sheet number 10256

Registration Number(s) No information available

Recommended use of the chemical and restrictions on use
Recommended use For research use only

Supplier's details

Corporate HeadquartersManufacturerLegal Entity / Contact AddressBio-Rad Laboratories Inc.Bio-RadBio-Rad Laboratories Pvt. Ltd.

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South Africa: 27-11-442-85-08 India: support.india@bio-rad.com

South Africa: cdg_techsupport_eemea@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC India: 000-800-100-7141

CHEMTREC South Africa: 0-800-983-611

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Carcinogenicity	Classification not possible
Reproductive toxicity	Category 1B

GHS Label elements, including precautionary statements



Signal word Danger

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Hazard statements

May damage fertility or the unborn child

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%
Boric acid (H3BO3)	10043-35-3	0.31
10043-35-3		
Borax (B4Na2O7.10H2O)	1303-96-4	0.14
1303-96-4		

4. FIRST AID MEASURES

Description of necessary first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Ingestion Rinse mouth thoroughly with water.

For emergency responders

Self-protection of the first aider No information available.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

surrounding environment.

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

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

No information available.

chemical

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove

contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up.

Incompatible materials Metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	Ontario	European Union
Boric acid (H3BO3)	STEL: 6 mg/m ³ inhalable	-	TWA: 2 mg/m ³	-
10043-35-3	particulate matter		STEL: 6 mg/m ³	
	TWA: 2 mg/m³ inhalable			
	particulate matter			
Borax (B4Na2O7.10H2O)	STEL: 6 mg/m ³ inhalable	(vacated) TWA: 10 mg/m ³	TWA: 2 mg/m ³	-
1303-96-4	particulate matter		STEL: 6 mg/m ³	
	TWA: 2 mg/m³ inhalable			
	particulate matter			

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Chemical name	China	Japan Society of Occupational Health	Korea	Australia	Taiwan
Borax (B4Na2O7.10H2O)	=	-	TWA: 5 mg/m ³	5 mg/m ³	-
1303-96-4					

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 protectionWear suitable protective clothing.

Hand protection Wear suitable gloves.

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 Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

AppearanceClear to semi-clearOdourNo information availableColourVariesOdour thresholdNo information available

Property Values Remarks • Method

pHNo information availableMelting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information available

Upper/lower flammability or explosive limits

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour pressureNo information availableVapour densityNo information availableRelative densityNo information available

Solubility(ies)

Water solubility Soluble in water

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

No information available
No information available
No information available

Viscosity

Kinematic viscosity

No information available

Dynamic viscosity

Other information

Oxidising properties Not applicable

10. STABILITY AND REACTIVITY

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Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materials Metals.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on the 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 No information available.

Acute toxicity

Numerical measures of toxicity

Oral LD50No information availableDermal LD50No information availableInhalation LC50No information availableInhalation LC50No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Boric acid (H3BO3)	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat)4 h
Borax (B4Na2O7.10H2O)	= 3493 mg/kg (Rat) = 2660 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 2 mg/m³ (Rat) 4 h

Delayed and immediate effects and also chronic effects from short and long term exposure

Skin corrosion/irritationNo information available.

Serious eve damage/irritationNo information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical name	IARC
Boric acid (H3BO3)	Group 2A
Borax (B4Na2O7.10H2O)	Group 2A

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
Boric acid (H3BO3)	-	LC50: =1020mg/L (72h, Carassius	EC50: 115 - 153mg/L (48h, Daphnia
		auratus)	magna)

Persistence and degradability

No information available.

Bioaccumulative potential

There is no data for this product.

<u>Mobility</u>

Mobility in soil No information available.

Mobility No information available.

Chemical name	Partition coefficient
Boric acid (H3BO3)	-0.757

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal 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. TRANSPORT INFORMATION

MDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions for user

Special provisions from the regulations relative to the specified mode of transport are noted

by numeric code. Refer to the regulations for the full text of special provisions.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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

International Inventories

Contact supplier for inventory compliance status

16. OTHER INFORMATION

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 27-Oct-2021

Revision Note*** Indicates this information has changed since the previous revision.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

C Carcinogen

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

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