

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: \$\$586: 2008 (2014)

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Bio-Rad Laboratories Ltd.

Thailand

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Product Name SaSelect, 20 x 90 mm Plates

Other means of identification

Catalogue Number(s) 63748

Pure substance/mixture Mixture

**Contains Quartz** 

Recommended use of the chemical and restrictions on use

Recommended use In vitro diagnostic

Restricted to professional users

Uses advised against No information available

Details of the supplier of the safety data sheet

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## **SECTION 2: Hazards identification**

GHS Classification

Carcinogenicity Category 1A

Label elements

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#### Signal word Danger

## **Hazard statements**

H350 - May cause cancer

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

## SECTION 3: Composition/information on ingredients

#### Substance

Not applicable

#### **Mixture**

Chemical name	EC No (EU Index No)	CAS No	Weight-%
Sodium chloride	231-598-3	7647-14-5	2.5 - 5
Quartz	238-878-4	14808-60-7	1 - 2.5
Dimethyl sulfoxide	200-664-3	67-68-5	0.1 - 0.299
Polyethylene glycol	-	25322-68-3	0.01 - 0.099

Non-hazardous Proprietary Balance

ingredients

## **SECTION 4: First aid measures**

### **Description of first aid measures**

**General advice** IF exposed or concerned: Get medical advice/attention.

**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 doctor.

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

water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

For emergency responders

**Self-protection of the first aider**No information available.

Indication of any immediate medical attention and special treatment needed

**Note to doctors**Treat symptomatically.

## SECTION 5: Firefighting measures

Suitable Extinguishing Media

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

None known.

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.

## **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**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 labelled containers.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 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.

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General hygiene considerations

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

immediately after handling the product.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

### SECTION 8: Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Chemical name	Singapore	ACGIH TLV
Quartz	PEL: 0.1 mg/m <sup>3</sup>	TWA: 0.025 mg/m³ respirable
14808-60-7	-	particulate matter

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **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.

**Hand protection** Wear suitable gloves.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state Solid Appearance gel

**Colour** Clear to slightly cloudy

Odour Negligible.

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

рΗ 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 No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

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None known

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownVapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility Insoluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone known

Autoignition temperature 215 °C

Decomposition temperature

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information No information available

## **SECTION 10: Stability and reactivity**

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 None under normal processing.

Conditions to avoid

**Conditions to avoid**None known based on information supplied.

Incompatible materials

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## SECTION 11: 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 characteristics

**Symptoms** No information available.

#### **Acute toxicity**

### **Numerical measures of toxicity**

### The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 81,708.30 mg/kg

**Component Information** 

Component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)		
Sodium chloride	= 3 g/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 42 mg/L (Rat) 1 h
Agar	= 11 g/kg (Rat)		
Lithium chloride	= 526 mg/kg (Rat)	> 2000 mg/kg (Rat)	
Dimethyl sulfoxide	= 28300 mg/kg (Rat)	= 40000 mg/kg (Rat)	> 5.33 mg/L (Rat)4 h
Polyethylene glycol	= 22 g/kg (Rat)	> 20 g/kg ( Rabbit )	
Cycloheximide	= 2 mg/kg ( Rat )		
Aztreonam	> 10 g/kg (Rat)		

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

**Skin corrosion/irritation**Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

Reproductive toxicity Based on available data, the classification criteria are not met.

**STOT - single exposure**Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

**Aspiration hazard** Classification not possible.

## **SECTION 12: Ecological information**

### **Ecotoxicity**

## **Ecotoxicity**

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea

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0 11 11 11	1.050 5500 0000 # (00)	E050 4000 # /401
Sodium chloride	- LC50: 5560 - 6080mg/L (96h,	EC50: =1000mg/L (48h,
	Lepomis macrochirus)	Daphnia magna)
	LC50: =12946mg/L (96h,	EC50: 340.7 - 469.2mg/L (48h,
	Lepomis macrochirus)	Daphnia magna)
	LC50: 6020 - 7070mg/L (96h,	
	Pimephales promelas)	
	LC50: =7050mg/L (96h,	
	Pimephales promelas)	
	LC50: 6420 - 6700mg/L (96h,	
	Pimephales promelas)	
	LC50: 4747 - 7824mg/L (96h,	
	Oncorhynchus mykiss)	
Dimethyl sulfoxide	- LC50: =34000mg/L (96h,	-
	Pimephales promelas)	
	LC50: 33 - 37g/L (96h,	
	Oncorhynchus mykiss)	
	LC50: >40g/L (96h, Lepomis	
	macrochirus)	
	LC50: =41.7g/L (96h, Cyprinus	
	carpio)	

### Persistence and degradability

Persistence and degradability No information available.

**Bioaccumulative potential** 

**Bioaccumulation** There is no data for this product.

Chemical name	Partition coefficient	
Dimethyl sulfoxide	-1.35	
Polyethylene glycol	-0.698	

## **Mobility**

Mobility in soil No information available.

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment	
Sodium chloride	The substance is not PBT / vPvB	
Dimethyl sulfoxide	The substance is not PBT / vPvB	
Polyethylene glycol	The substance is not PBT / vPvB	

## Other adverse effects

Other adverse effects No information available

## **SECTION 13: Disposal considerations**

## Waste treatment methods

products

Waste from residues/unused

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

with local regulations.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

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IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC Code

IATA Not regulated

## SECTION 15: Regulatory information

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

Singapore

#### **Environmental Public Health Act**

Dispose of waste product or used containers according to local regulations.

#### Hazardous Waste (Control of Export, Import and Transit) Act

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

#### Poison

Verify that licence requirements are met Verify that requirements related to using, handling, and storing substances subject to prohibition, authorisation or restriction are met

Chemical name	Poison	Poison Schedule Number
Dimethyl sulfoxide	X	First schedule
		Third schedule

#### Workplace Safety and Health Act

See section 8 for national exposure control parameters. Comply with the health and safety at work laws.

### **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

## **SECTION 16: Other information**

## 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

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA)

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EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### Label elements

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Issuing Date Bio-Rad Laboratories, Environmental Health and Safety

Revision date 22-Mar-2023

**Revision Note** Significant changes throughout SDS. Review all sections.

This safety data sheet complies with the requirements of: SS586: 2008 (2014)

#### 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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