

# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

239/2, Rajdamri Road, Lumpini,

Pathumwan, Bangkok 10330

Thailand

1st and 2nd Floor, Lumpini 1 Building

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Celselect Direct Enum. Cartridge

Revision date 11-Jun-2024

**Revision Number** 1

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

**Product identifier** 

**Product Name** Celselect Direct Enum. Cartridge

CEL84061 Catalogue Number(s)

Other means of identification

Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** 

Bio-Rad Laboratories Inc. Bio-Rad Laboratories, Life Science Group Bio-Rad Laboratories Ltd. 1000 Alfred Nobel Drive 2000 Alfred Nobel Drive Hercules, CA 94547 Hercules, California 94547

USA USA

**Technical Service** +66 2 652 8313

ctsthailand@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

## SECTION 2: Hazards identification

## **Emergency Overview**

May cause allergic respiratory reaction Contains a known or suspected carcinogen

Appearance No information available Physical state Liquid Odour None

### Classification of the substance or mixture

| Respiratory sensitisation | Category 1 |
|---------------------------|------------|
| Carcinogenicity           | Category 2 |

Label elements

Page 1/8



### Signal word

Danger

### **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled Suspected of causing cancer

### **Precautionary statements**

### Prevention

Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapours/spray In case of inadequate ventilation wear respiratory protection

## Response

IF exposed or concerned: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor

### Disposal

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

#### Physical and chemical hazards

Not applicable.

### **Health hazards**

Immediate Health Effects: Allergic reactions (sensitiser). Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Chronic effects: Contains a known or suspected carcinogen.

## **Environmental hazards**

Not applicable

## Other hazards which do not result in classification

Contains animal source material (Goat)

# SECTION 3: Composition/information on ingredients

### <u>Substance</u>

Not applicable.

### <u>Mixture</u>

Component Description

| Component | Dodonphon                                       |
|-----------|---|
| CEL50113  | Celselect Slide Direct Enumeration Reagents     |
| 12020942  | Celselect Slide Direct Enumeration Reagents 2.0 |

| Chemical name    | Weight-%    | CAS No.    |
|------------------|-------------|------------|
| Paraformaldehyde | 0.1 - 0.299 | 30525-89-4 |

CGHS / BE Page 2/8

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

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

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

**Inhalation** May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration.

Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

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

Consult a doctor.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a doctor.

**Ingestion** May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and

drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or

wheezing. Itching. Rashes. Hives.

<u>For emergency responders</u> Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact.

**Special protective actions 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 Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

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

CGHS / BE Page 3/8

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

Precautions to prevent secondary

hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

# **SECTION 7: Handling and storage**

Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. See Section 8 for information on

appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store according to product and label instructions.

Incompatible materials Metals.

# SECTION 8: Exposure controls/personal protection

## Occupational exposure limits

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

Note See section 16 for terms and abbreviations

### **Biological occupational exposure limits**

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

### Monitoring and observation processes

No applicable information was found.

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eve/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection**Wear suitable protective clothing.

Hand protection Wear suitable gloves.

CGHS / BE Page 4/8

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 Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately

after handling the product.

## SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Colour blue and colourless

Physical state Liquid Odour None

Odour threshold No information available

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

No data available None known Hq Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available None known Flash point **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

Water solubility

Solubility(ies)

Miscible in water
No data available

Partition coefficient No data available
Autoignition temperature 300 °C

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Additional information

Explosive properties Not applicable
Oxidising properties Not applicable

# **SECTION 10: Stability and reactivity**

<u>Stability</u> Stable under normal conditions.

Possibility of hazardous reactions Avoid contact with metals. This product contains Sodium azide. Sodium azide can react with

Copper, Brass, Lead, and solder in piping systems to form explosive compounds and toxic

None known

None known

gases.

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

<u>Conditions to avoid</u> None known based on information supplied.

CGHS / BE Page 5/8

Incompatible materials Metals.

<u>Hazardous decomposition products</u> None known based on information supplied.

# SECTION 11: Toxicological information

**Acute toxicity** 

Numerical measures of toxicity

No information available

**Component Information** 

| Chemical name    | Oral LD50         | Dermal LD50 | Inhalation LC50                    |
|------------------|-------------------|-------------|------------------------------------|
| Paraformaldehyde | = 800 mg/kg (Rat) | -           | = 1070 mg/m <sup>3</sup> (Rat) 4 h |
|                  |                   |             |                                    |

Skin corrosion/irritationBased on available data, the classification criteria are not met.Serious eye damage/eye irritationBased on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** May cause sensitisation by inhalation.

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. Suspected of causing cancer.

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

Specific target organ toxicity —

single exposure

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

Specific target organ toxicity —

repeated exposure

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

**Aspiration hazard** Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

**Ecotoxicity** 

**Unknown aquatic toxicity** 0.0005 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

CGHS / BE Page 6/8

# **SECTION 13: Disposal considerations**

Waste chemicals Flush pipes with water frequently if discarding solutions containing Sodium azide into metal

piping systems. Dispose of in accordance with local regulations. Dispose of waste in

accordance with environmental legislation.

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

## **SECTION 14: Transport information**

IMDG Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

# SECTION 15: Regulatory information

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

### **National regulations**

### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals The table below indicates ingredients

above the cut-off threshold considered as relevant which are listed. Weight-%

0

| Chemical name    | Inventory of hazardous chemicals |
|------------------|----------------------------------|
| Paraformaldehyde | Listed                           |

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances 
Contact supplier for inventory compliance status.

**International Regulations** 

CGHS / BE Page 7/8

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

## **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 11-Jun-2024

Revision Note Significant changes throughout SDS. Review all sections.

Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value Sk\* Skin designation

C Carcinogen

### 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)

**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)

U.S. 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

#### 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** 

CGHS / BE Page 8/8