

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

### 1.1 Product identifiers

Product name: PROV Medium

Product Number: MKPROV50L

Brand: Bigelow

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use: Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company: Bigelow Laboratory for Ocean Sciences

60 Bigelow Drive PO Box 380 East Boothbay, Me 04544

Telephone: (207) 315 2567

Fax: (207) 315 2329

E-mail address: ncma@bigelow.org

### 1.4 Emergency telephone number

Emergency Phone #: I.N.R.S.:+33 (0)1 45 42 59 59

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

### 2.2 Label elements

Not a hazardous substance or mixture

### 2.3 Other hazards – none

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## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

|                                        |                  |                                                        |
|----------------------------------------|------------------|--------------------------------------------------------|
| Sodium nitrate                         | CAS # 7631-99-4  | Concentration in final media: $8.82 \times 10^{-4}$ M  |
| Sodium phosphate monobasic monohydrate | CAS # 10049-21-5 | Concentration in final media: $3.62 \times 10^{-5}$ M  |
| Ammonium Chloride                      | CAS # 12125-02-9 | Concentration in final media: $5.00 \times 10^{-5}$ M  |
| Sodium EDTA dihydrate                  | CAS # 6381-92-6  | Concentration in final media: $1.17 \times 10^{-5}$ M  |
| Iron(III) chloride hexahydrate         | CAS # 10025-77-1 | Concentration in final media: $1.17 \times 10^{-5}$ M  |
| Copper(II) sulfate pentahydrate        | CAS # 7758-99-8  | Concentration in final media: $1.00 \times 10^{-8}$ M  |
| Sodium molybdate dihydrate             | CAS # 10102-40-6 | Concentration in final media: $2.60 \times 10^{-8}$ M  |
| Zinc sulfate heptahydrate              | CAS # 7446-20-0  | Concentration in final media: $8.00 \times 10^{-8}$ M  |
| Cobalt chloride hexahydrate            | CAS # 7791-13-1  | Concentration in final media: $5.00 \times 10^{-8}$ M  |
| Manganese(II) chloride tetrahydrate    | CAS # 13446-34-9 | Concentration in final media: $9.00 \times 10^{-7}$ M  |
| Sodium molybdate dihydrate             | CAS # 10102-40-6 | Concentration in final media: $8.22 \times 10^{-8}$ M  |
| Selenous acid                          | CAS # 7783-00-8  | Concentration in final media: $1.00 \times 10^{-8}$ M  |
| Nickel(II) sulfate hexahydrate         | CAS # 10101-97-0 | Concentration in final media: $1.00 \times 10^{-8}$ M  |
| Sodium Orthovanadate                   | CAS # 13721-39-6 | Concentration in final media: $1.00 \times 10^{-8}$ M  |
| Potassium chromate                     | CAS # 7789-00-6  | Concentration in final media: $1.00 \times 10^{-8}$ M  |
| Thiamine HCl (Vitamin B1)              | CAS # 67-03-8    | Concentration in final media: $2.96 \times 10^{-7}$ M  |
| Cyanocobalamin (Vitamin B12)           | CAS # 68-19-9    | Concentration in final media: $3.69 \times 10^{-10}$ M |
| Biotin (Vitamin H)                     | CAS # 58-85-5    | Concentration in final media: $2.05 \times 10^{-9}$ M  |

Soil extract

CAS # n/a

Concentration in final media: 0.0055% (w/w)

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

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

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

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

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

Avoid breathing vapors, mist or gas. For personal protection see section 8.

### **6.2 Environmental precautions**

No special environmental precautions required.

### **6.3 Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 20 °C

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

General industry hygiene practice.

#### **Personal protective equipment**

##### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

##### **Body Protection**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection.**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- a) Appearance Form: liquid
- b) Odor: no data available
- c) Odor Threshold: no data available
- d) pH: no data available
- e) Melting point/freezing point: no data available
- f) Initial boiling point and boiling range: no data available
- g) Flash point: no data available
- h) Evaporation rate: no data available
- i) Flammability (solid, gas): no data available
- j) Upper/lower flammability or explosive limits: no data available
- k) Vapor pressure: no data available
- l) Vapor density: no data available

- m) Relative density: no data available
- n) Water solubility: no data available
- o) Partition coefficient: n-octanol/water: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity no data: available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

## **9.2 Other safety information**

No data available

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

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

No data available

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

No data available

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory or skin sensitization**

No data available

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

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

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information**

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

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**SECTION 15: Regulatory information**

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** No SARA Hazards

**Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act.

**California Prop. 65 Components** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: Other information**

**HMIS Rating**

Health hazard: 0

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

**NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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END OF SDS