

# **SAFETY DATA SHEET**

Revision Date 24-December-2021 **Revision Number** 5

1. Identification

**Product Name SAC II, Restriction Enzyme** 

**BP3414-1** Cat No.:

No information available **Synonyms** 

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor Fisher Scientific 112 Colonnade Road,

Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

Manufacturer

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

**Emergency Telephone Number** CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

# 3. Composition/Information on Ingredients

| Component                  | CAS-No  | Weight % |
|----------------------------|---------|----------|
| SAC II, Restriction Enzyme | NA      | 50.0     |
| 1,2,3-Propanetriol         | 56-81-5 | 50.0     |

## 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

**Notes to Physician** 

None reasonably foreseeable.

Treat symptomatically

# 5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash PointNo information availableMethod -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Societivity to Mechanical Impact No information available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

None known.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards00N/A

## 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Avoid dust formation. **Up** 

# 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

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

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

| Component          | Alberta                   | British<br>Columbia                                   | Ontario TWAEV | Quebec                    | ACGIH TLV | OSHA PEL   | NIOSH IDLH |
|--------------------|---------------------------|---|---------------|---------------------------|-----------|--|------------|
| 1,2,3-Propanetriol | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup><br>TWA: 3 mg/m <sup>3</sup> |               | TWA: 10 mg/m <sup>3</sup> |           | (Vacated) TWA:<br>10 mg/m³<br>(Vacated) TWA:<br>5 mg/m³<br>TWA: 15 mg/m³<br>TWA: 5 mg/m³ |            |

#### Legend

OSHA - Occupational Safety and Health Administration

## **Engineering Measures**

None under normal use conditions.

#### Personal protective equipment

**Eye Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

| Γ | Glove material | Breakthrough time | Glove thickness | Glove comments         |
|---|----------------|-------------------|-----------------|------------------------|
|   | Nitrile rubber | See manufacturers | -               | Splash protection only |
|   |                | recommendations   |                 |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

## **Environmental exposure controls**

No information available.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. 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 after work.

## 9. Physical and chemical properties

Liquid **Physical State** Colorless **Appearance** Odor No information available **Odor Threshold** No information available No information available Melting Point/Range No data available **Boiling Point/Range** No information available **Flash Point** No information available **Evaporation Rate** No information available

## SAC II, Restriction Enzyme

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper
Lower
No data available
No data available
No data available
No information available
Vapor Density
No information available
Specific Gravity
No information available
Solubility
No information available
No information available
No data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available
No information available

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

# 11. Toxicological information

### **Acute Toxicity**

# Product Information

**Component Information** 

| Component          | LD50 Oral           | LD50 Dermal       | LC50 Inhalation              |
|--------------------|---------------------|-------------------|------------------------------|
| 1,2,3-Propanetriol | 12600 mg/kg ( Rat ) | > 10 g/kg(Rabbit) | > 2.75 mg/L/4h ( Rat )(mist) |

Toxicologically Synergistic No information available

**Products** 

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

Irritation No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component                     | CAS-No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------------------|---------|------------|------------|------------|------------|------------|
| SAC II, Restriction<br>Enzyme | NA      | Not listed |
| 1,2,3-Propanetriol            | 56-81-5 | Not listed |

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

**Teratogenicity** No information available.

STOT - single exposure None known

## **SAC II, Restriction Enzyme**

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

#### **Ecotoxicity**

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| Component          | Freshwater Algae | Freshwater Fish  | Microtox   | Water Flea |
|--------------------|------------------|--|------------|------------|
| 1,2,3-Propanetriol | Not listed       | LC50: 51 - 57 mL/L, 96h<br>static (Oncorhynchus<br>mykiss) | Not listed | Not listed |

Persistence and Degradability

No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

| Component          | log Pow |
|--------------------|---------|
| 1,2,3-Propanetriol | -1.76   |

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| 14. | . Transport information |
|-----|-------------------------|
|     |                         |

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

## 15. Regulatory information

### International Inventories

| Component                  | CAS-No  | DSL | NDSL | TSCA | TSCA Inventory<br>notification -<br>Active-Inactive | EINECS    | ELINCS | NLP |
|----------------------------|---------|-----|------|------|---|-----------|--------|-----|
| SAC II, Restriction Enzyme | NA      | ı   | ı    | ı    | •   | -         | -      | i   |
| 1,2,3-Propanetriol         | 56-81-5 | X   | -    | Х    | ACTIVE  | 200-289-5 | -      | -   |

| Component                  | CAS-No  | IECSC | KECL     | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|----------------------------|---------|-------|----------|------|------|------|------|-------|-------|
| SAC II, Restriction Enzyme | NA      | -     | -        | -    | -    | -    | -    | ı     | -     |
| 1,2,3-Propanetriol         | 56-81-5 | Х     | KE-29297 | Х    | Х    | X    | Х    | Х     | Х     |

# Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

### Other International Regulations

## Authorisation/Restrictions according to EU REACH

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

| Component                  | CAS-No  | OECD HPV       | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|----------------------------|---------|----------------|---------------------------------|------------------------------|--|
| SAC II, Restriction Enzyme | NA      | Not applicable | Not applicable                  | Not applicable               | Not applicable                                   |
| 1,2,3-Propanetriol         | 56-81-5 | Listed         | Not applicable                  | Not applicable               | Not applicable                                   |

| Component                  | CAS-No  | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |
|----------------------------|---------|---|--|-------------------------------|---------------------------------------|
| SAC II, Restriction Enzyme | NA      | Not applicable  | Not applicable   | Not applicable                | Not applicable                        |
| 1,2,3-Propanetriol         | 56-81-5 | Not applicable  | Not applicable   | Not applicable                | Not applicable                        |

## 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

### **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 SDS**