

# **SAFETY DATA SHEET**

Creation Date 16-September-2011 Revision Date 24-December-2021 **Revision Number 4** 

1. Identification

OPTIZYME™ ALW44 I **Product Name** 

BP8059-1 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 %
Water	7732-18-5	25 - 50
1,2,3-Propanetriol	56-81-5	>50

### 4. First-aid measures

**Eve 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 if

symptoms occur.

Inhalation Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial

respiration.

Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms/effects

No information available. Treat symptomatically

**Notes to Physician** 

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

No information available **Unsuitable Extinguishing Media** 

**Flash Point** Not applicable

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

Upper

Not applicable No data available

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

## Specific Hazards Arising from the Chemical

Non-combustible. None reasonably foreseeable.

#### **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

Health **Flammability** Instability Physical hazards N/A

#### Accidental release measures

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

with skin, eyes or clothing.

**Environmental Precautions** Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

## 7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid Handling

contact with skin, eves or clothing. Avoid ingestion and inhalation.

Storage.

Keep container tightly closed in a dry and well-ventilated place. Store product at -20C. Incompatible Materials. No information available.

## 8. Exposure controls / personal protection

#### **Exposure Guidelines**

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

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

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.

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

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

Physical State Liquid
Appearance Colorless
Odor Slight

Odor Threshold No information available

oH 7.4

Melting Point/RangeNo data availableBoiling Point/RangeNo information available

Flash Point Not applicable

**Evaporation Rate** No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper
Lower
No data available
No data available
No data available
No information available
Vapor Pressure
Vapor Density
No information available
Specific Gravity
No information available
Solubility
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature Not applicable

Decomposition TemperatureNo information availableViscosityNo information available

# 10. Stability and reactivity

Reactive Hazard No

**Stability** Stable under normal conditions.

Conditions to Avoid

No information available.

Incompatible Materials

No information available

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** 

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
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
Water	7732-18-5	Not listed				
1,2,3-Propanetriol	56-81-5	Not listed				

**Mutagenic Effects** None known

No information available. Reproductive Effects

**Developmental Effects** No information available.

No information available. **Teratogenicity** 

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard** No information available

Symptoms / effects,both acute and No information available

delayed

No information available **Endocrine Disruptor Information** 

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

# 12. Ecological information

#### **Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment. .

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

**Persistence and Degradability** Miscible with water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

. Will likely be mobile in the environment due to its water solubility. **Mobility** 

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

# 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

Not regulated DOT Not regulated **TDG** Not regulated IATA IMDG/IMO Not regulated

# 15. Regulatory information

#### International Inventories

	Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
	Water	7732-18-5	X	-	Х	ACTIVE	231-791-2	-	-
Г	1,2,3-Propanetriol	56-81-5	Х	-	Х	ACTIVE	200-289-5	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS

Water	7732-18-5	Х	KE-35400	Х	-	Х	Х	Х	Х
1,2,3-Propanetriol	56-81-5	Х	KE-29297	Х	Х	Х	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 Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	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 (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Notification	Requirements		
Water	7732-18-5	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

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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**