

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** Free Cholesterol E Standard Solution

### Other means of identification

**Product Code** 993-02501

### Recommended use of the chemical and restrictions on use

**Recommended Use** For Research Use Only (not for use in diagnostic procedures).

**Uses advised against** No information available

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

#### Manufacturer Address

Wako Pure Chemical Industries, Ltd.

1-2 Doshomachi 3-Chome

Chuo-ku, Osaka 540-8605, Japan

Phone: +81 (0)6-6203-3741

Fax: +81 (0)6-6203-4640

#### Emergency telephone

+1 (800)424-9300 (CHEMTREC)

#### Distributor

Wako Life Sciences, Inc.

Address : 1025 Terra Bella Ave., Suite A, Mountain View, CA 94043, USA

Phone : +1 (877)714-1924

## 2. HAZARDS IDENTIFICATION

### GHS classification

#### Classification of the substance or mixture

**Skin corrosion/irritation**

Category 2

**Serious eye damage/eye irritation**

Category 1

**Aquatic environment (long-term hazard)**

Category 3

### Pictograms



### Signal word

Danger

### Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

### Precautionary statements-(Prevention)

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid release to the environment

### Precautionary statements-(Response)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

### Precautionary statements-(Storage)

Not applicable

### Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

**Others**  
**Other hazards** Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture** Mixture

Chemical Name	Molecular weight	CAS No.	Weight-%
Polyethylene glycol p-octylphenyl ether	N/A	9002-93-1	< 20%
2-Propanol	60.10	67-63-0	< 10%

**Impurities and/or Additives :** Not applicable

### 4. FIRST AID MEASURES

#### First aid measures

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

**Skin contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

#### Explosion data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

#### 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.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions, protective equipment and emergency procedures**      Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

**Environmental precautions**      See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods and material for containment and cleaning up**      Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

**Methods for cleaning up**      Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Protective measures**      Handle in accordance with good industrial hygiene and safety practice.

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

**Storage conditions**      Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

**Packaging materials**      Glass.

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

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

**Exposure limits**

Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
2-Propanol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

**Personal protective equipment**

**Respiratory protection**      Protective mask  
**Hand protection**      Protection gloves  
**Eye protection**      protective eyeglasses or chemical safety goggles  
**Skin and body protection**      Long-sleeved work clothes

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Form**

**Color**      colorless  
**Turbidity**      clear

<b>Appearance</b>	liquid
<b>Odor</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Boiling point, initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper :</b>	No data available
<b>Lower :</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Specific Gravity / Relative density</b>	No data available
<b>Solubilities</b>	No data available
<b>n-Octanol/water partition coefficient:(log Pow)</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity (coefficient of viscosity)</b>	No data available
<b>Dynamic viscosity</b>	No data available

## 10. STABILITY AND REACTIVITY

### Stability

<b>Stability</b>	Stable under recommended storage conditions.
<b>Reactivity</b>	No data available

### Hazardous reactions

None under normal processing

### Conditions to avoid

No information available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

No information available

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene glycol p-octylphenyl ether	1800mg/kg(rat)	8000mg/kg(rabbit)	16000ppm/8h(rat)
2-Propanol	5280mg/kg(rat)	12870mg/kg(rabbit)	16000ppm/8h(rat)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Propanol			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
2-Propanol		Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

**Skin irritation/corrosion**

Chemical Name	Skin corrosion irritation source information
2-Propanol	Based on the NITE GHS classification results.

**Serious eye damage/ irritation**

Chemical Name	Serious eye damage source information
Polyethylene glycol p-octylphenyl ether	Based on the NITE GHS classification results.
2-Propanol	Based on the NITE GHS classification results.

**Respiratory or skin sensitization**

Chemical Name	Respiratory, Skin sensitization source information
2-Propanol	Based on the NITE GHS classification results.

**Reproductive cell mutagenicity**

Chemical Name	Mutagenic source information
2-Propanol	Based on the NITE GHS classification results.

**Carcinogenicity**

Chemical Name	Carcinogenicity source information
2-Propanol	Based on the NITE GHS classification results.

**Reproductive toxicity**

Chemical Name	Reproductive toxicity source information
2-Propanol	Based on the NITE GHS classification results.

**STOT-single exposure**

Chemical Name	STOT -single exposure- source information
2-Propanol	Based on the NITE GHS classification results.

**STOT-repeated exposure**

Chemical Name	STOT -repeated exposure- source information
2-Propanol	Based on the NITE GHS classification results.

**Aspiration hazard**

Chemical Name	Aspiration Hazard source information
2-Propanol	Based on the NITE GHS classification results.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Polyethylene glycol p-octylphenyl ether 9002-93-1		LC50 fathead minnow- 8.9mg/l/96h		EC50 Daphnia 26m/l/48h
2-Propanol 67-63-0	EC50:Desmodesmus subspicatus 1000 mg/L 96 h EC50:Desmodesmus subspicatus 1000 mg/L 72 h	LC50: Orange-red killifish >100mg/L 96h		EC50:Daphnia magna 13299 mg/L 48 h

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available

Chemical Name	Partition coefficient
2-Propanol 67-63-0	0.05

**Mobility in soil**

No information available

**Other Data**

No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Precautionary including method of disposing contaminated packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

UN/ID No -

Proper shipping name:

UN classification

Subsidiary hazard class

Packing group

Marine pollutant Not applicable

**IATA** Not regulated

UN/ID No -

Proper shipping name:

UN classification

Subsidiary hazard class

Packing group

Environmentally Hazardous Substance Not applicable

**IMDG** Not regulated

UN/ID No -

Proper shipping name:

UN classification

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA Listed

DSL Listed

NDSL -

EINECS/ELINCS Listed

ENCS Listed

#### Legend:

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

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

#### US Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
2-Propanol - 67-63-0	67-63-0	< 10%	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any chemicals regulated by Proposition 65

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Propanol 67-63-0	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

Revision Date 24-Oct-2016

**Revision Note**

No information available

**Disclaimer**

The information provided in this Material 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