

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/20/2014 Version: 1.0

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

**Product identifier** 

Product form : Mixture

Trade name : Revital-Ox™ Enzymatic Sponge

Product code

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

Use of the substance/mixture : Professional use

Use of the substance/mixture : Enzymatic Cleaner for Endoscopes and surgical equipment

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

STERIS Corporation

P. O. Box 147, St. Louis, MO 63166, US

Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

#### **Emergency telephone number**

Emergency number : US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

Not classified

#### 2.2. Label elements

#### **GHS-US** labelling

Not classified

## Other hazards

No additional information available

# **Unknown acute toxicity (GHS-US)**

No data available

## **SECTION 3: Composition/information on ingredients**

## **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Dimethylol-5,5-dimethylhydantoin	(CAS No) 6440-58-0	< 0.14	Not classified
3-lodo-2-propynyl butylcarbamate	(CAS No) 55406-53-6	< 0.14	Not classified

# **SECTION 4: First aid measures**

First-aid measures after skin contact

First-aid measures after eye contact

## **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation Remove patient to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration. Seek medical attention immediately. : Remove/Take off immediately all contaminated clothing. Immediately flush skin with plenty of

water for at least 15 minutes. If skin irritation persists, seek medical attention.

: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Seek medical attention immediately. First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Immediately call a POISON CENTER or doctor/physician.

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

: May cause an allergic skin reaction. Dust of the product, if present, may cause respiratory Symptoms/injuries after inhalation irritation after an excessive inhalation exposure. May cause allergy or asthma symptoms or

breathing difficulties if inhaled. Inhalation may cause irritation, cough, short breathing.

Symptoms/injuries after skin contact : Repeated or prolonged skin contact may cause irritation.

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Symptoms/injuries after eye contact

: May cause moderate irritation.

Symptoms/injuries after ingestion

: Can occur: Gastrointestinal disturbance.

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

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

## Special hazards arising from the substance or mixture

No additional information available

#### **Advice for firefighters**

Firefighting instructions

: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

: Ventilate area.

Protective equipment for firefighters

: Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

General measures

: Stop leak if safe to do so. Avoid contact with skin, eyes and clothing. Avoid breathing dust, mist or spray. Spilled material may present a slipping hazard. Ensure adequate air ventilation. Work in a well-ventilated area.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Evacuate unnecessary personnel.

#### For emergency responders 6.1.2.

Protective equipment

: Equip cleanup crew with proper protection.

**Emergency procedures** 

# **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water. Ensure all national/local regulations are

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling

: Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. For further information refer to section 8: Exposure-controls/personal protection.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Handle in accordance with good industrial hygiene and safety practices.

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

Technical measures

: A washing facility/water for eye and skin cleaning purposes should be present. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapours below the recommended exposure limits.

Storage conditions

Keep out of reach of children. Keep only in original container. Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Avoid high temperatures.

#### Specific end use(s)

No additional information available

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

# **Control parameters**

No additional information available

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#### 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment

: Avoid all unnecessary exposure. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective clothing. Gloves. Protective goggles.







Hand protection : Wear rubber gloves. Eye protection : Wear safety glasses

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Fine dispersion/spraying/misting: In case of insufficient ventilation, wear suitable respiratory

equipment.

Other information : Do not eat, drink or smoke during use.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Amber.

Odour : Spicy floral fragrance
Odour threshold : No data available

pH : 7.5 - 8 Approximately

Relative evaporation rate (butyl acetate=1) : No data available No data available Melting point Freezing point : No data available Boiling point No data available : No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available

Density : 1.000 g/ml Specific Gravity
Solubility : Water: completely soluble

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No additional information available.

# 10.2. Chemical stability

Stable under normal conditions.

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## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

# 10.4. Conditions to avoid

No additional information available.

# 10.5. Incompatible materials

Strong oxidizers.

# 10.6. Hazardous decomposition products

Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. Aldehydes.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

3-lodo-2-propynyl butylcarbamate (55406-5	3-6)	
LD50 oral rat		1100 mg/kg
ATE CLP (oral)		1100.000 mg/kg bodyweight
ATE CLP (gases)		4500.000 ppmv/4h
ATE CLP (vapours)		11.000 mg/l/4h
ATE CLP (dust,mist)		1.500 mg/l/4h
Dimethylol-5,5-dimethylhydantoin (6440-58-	-0)	
LD50 oral rat		2000 mg/kg
ATE CLP (oral)		2000.000 mg/kg bodyweight
Skin corrosion/irritation	:	Not classified
		Based on available data, the classification criteria are not met.
		pH: 7.5 - 8 Approximately
Serious eye damage/irritation	:	Not classified
, ,		Based on available data, the classification criteria are not met.
		pH: 7.5 - 8 Approximately
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity		Not classified
,		Based on available data, the classification criteria are not met.
Carcinogenicity	:	Not classified
		Based on available data, the classification criteria are not met.
Reproductive toxicity		Not classified
Toproductive toxicity	•	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)		Not classified
opecine target organ toxicity (single exposure)	•	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	:	Not classified
exposure)		Based on available data, the classification criteria are not met.
Aspiration hazard	:	Not classified
		Based on available data, the classification criteria are not met.
Potential Adverse human health effects and	:	Not classified
symptoms		Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	:	May cause an allergic skin reaction. Dust of the product, if present, may cause respirator irritation after an excessive inhalation exposure. May cause allergy or asthma symptoms of breathing difficulties if inhaled. Inhalation may cause irritation, cough, short breathing.
Symptoms/injuries after skin contact	:	Repeated or prolonged skin contact may cause irritation.
Symptoms/injuries after eye contact	:	May cause moderate irritation.
Symptoms/injuries after ingestion	:	Can occur: Gastrointestinal disturbance.
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# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general

: Readily biodegradable. (OECD 301B method). The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

3-lodo-2-propynyl butylcarbamate (55406-53-6)		3)
	LC50 fishes 1	0.14 - 0.32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
	LC50 fish 2	0.049 - 0.079 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

## 12.2. Persistence and degradability

Revital-Ox™ Enzymatic Sponge	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Revital-Ox™ Enzymatic Sponge	
Bioaccumulative potential	Not established.

## 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not allow to enter into surface water or drains. Ensure all national/local regulations are observed. Empty containers should be rinsed and discarded in a waste container or offered for recycling if possible.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT

Not regulated for transport

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description : No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

	3-lodo-2-propynyl butylcarbamate (55406-53-6	6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313		
	SARA Section 313 - Emission Reporting	1.0 %

## Dimethylol-5,5-dimethylhydantoin (6440-58-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# 15.2. International regulations

Not applicable

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# 15.3. US State regulations

This product contains a chemical known to the State of California to cause cancer.

# **SECTION 16: Other information**

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



SDS US (GHS HazCom 2012)

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.

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