

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Date of issue: 06/04/2015 Version: 1.0

1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Enzymatic Detergent 1.3. Details of the supplier of the safety data sheet Manufacturer: STERIS Corporation P. O. Box 147, St. Louis, MO 63166, US Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products) US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC) 1.4. Emergency telephone number Emergency number : +44 (0) 1895 622 639 SECTION 2: Hazards identification 2.1. Classification of the substance or mixture GHS-US classification	
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GHS-US classification	
Eye Dam. 2B H320 Resp. Sens. 1 H334 STOT (SE) 3 H335 Acute Tox Oral 5 H303 Acute Tox Derm 5 H313 Acute Tox Inhalation 5 H333	
Full text of H-phrases: see section 16 2.2. Label elements GHS-US labelling	
Hazard pictograms (GHS-US) : GHS07 GHS08	
Signal word (GHS-US) : Danger	
Hazard statements (GHS-US) : H303 - May be harmful if swallowed H313 - May be harmful in contact with skin H315 - Causes skin irritation H320 - Causes eye irritation H333 - May be harmful if inhaled H334 - May cause allergy or asthma symptoms or breathing difficulties if i H335 - May cause respiratory irritation	nhaled
Precautionary statements (GHS-US) : P261 - Avoid breathing mist, spray, vapours P264 - Wash hands thoroughly after handling P271 - Use in a well-ventilated area P280 - Wear protective gloves/protective clothing and eye/face protection P284 - Wear respiratory protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in for breathing P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several in contact lenses, if present and easy to do. Continue rinsing P312 – Call a POISON CENTER/doctor if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse	
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P501 - Dispose of contents/container to comply with applicable local, national and international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

Full text of H-phrases: see section 16

Mixture 3.2.

Name	Product identifier	%	GHS-US classification
Citric acid	(CAS No) 77-92-9	1 - 5	Eye Irrit. 2A, H319
Triethanolamine	(CAS No) 102-71-6	1 - 5	Eye Irrit. 2A, H319
Ethanolamine	(CAS No) 141-43-5	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 STOT SE 3, H335
Ethoxylated coconut oil alkyl amine	(CAS No) 61791-14-8	1 - 5	Not classified
N,N-Dimethyloctadecylamine oxide	(CAS No) 2571-88-2	1 - 2	Skin Irrit. 2, H315 Eye Dam. 1, H318
Subtilisins (proteolytic enzymes)	(CAS No) 9014-01-1	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335
Glycerine	(CAS No) 56-81-5	1 - 5	Not classified

SECTION 4: First aid measures

4.1.	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 to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention
First-aid	measures after skin contact	:	Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention
First-aid	measures after eye contact	:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately get medical attention
First-aid	measures after ingestion	:	If victim completely conscious/alert. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Give water or milk if the person is fully conscious
4.2.	Most important symptoms and effects	s,	both acute and delayed
Symptor	ns/injuries	:	Causes eye irritation. May be harmful if inhaled
Symptor	ns/injuries after inhalation	:	In case of repeated or prolonged exposure : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation
Symptor	ns/injuries after skin contact	:	Causes skin irritation
Symptor	ns/injuries after eye contact	:	Causes eye irritation
Symptor	ns/injuries after ingestion	:	Can occur: gastrointestinal disturbance
4.3.	Indication of any immediate medical a	at	tention and special treatment needed
No addit	ional information available		
SECTI	ON 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	extinguishing media	:	Use extinguishing media appropriate for surrounding fire
5.2.	Special hazards arising from the subs	st	ance or mixture
No addit	ional information available		
5.3.	Advice for firefighters		
Firefight	ing instructions	:	Exercise caution when fighting any chemical fire
Protectiv	e equipment for firefighters	:	Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus
Other in	formation	:	Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NOx)

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according to the federal final rule of ha	azard communication re	evised on 2012 (HazCom 2012)		
SECTION 6: Accidental	release measur	res		
6.1. Personal precaution	s, protective equip	ment and emergency procedures		
General measures	:	Do not breathe fumes, vapors. Avoid o	contact with skin, eyes and clothes	
6.1.1. For non-emergency	personnel			
Protective equipment	:	Wear protective gloves and eye/face p "Exposure controls/personal protection	protection. For further information refer to section 8: n"	
Emergency procedures	:	Stop leak if safe to do so. Evacuate un	nnecessary personnel	
6.1.2. For emergency resp	onders			
Protective equipment	:	Equip cleanup crew with proper protect	ction	
Emergency procedures	:	Ventilate area		
6.2. Environmental preca	autions			
Prevent entry to sewers and pul	blic waters. Notify au	thorities if liquid enters sewers or publi	ic waters	
6.3. Methods and materia	al for containment	and cleaning up		
Methods for cleaning up		solids, such as clay or diatomaceous e from other materials. Residue may be	and international regulation. Soak up spills with inert earth as soon as possible. Collect spillage. Store away washed down with water. Product may be flushed to a of water, if in accordance with local, state or national	
6.4. Reference to other s	sections			
See Heading 8. Exposure control	ols and personal pro	tection		
SECTION 7: Handling a	nd storage			
7.1. Precautions for safe	handling			
Precautions for safe handling		process area to prevent formation of v	use only. Read label before use. Provide good ventilation in rapour. Avoid all eye and skin contact and do not breathe er exposed areas with mild soap and water before eating, work	
Hygiene measures	:	Take care for general good hygiene an Do not eat, drink or smoke when using	nd housekeeping. Wash hands thoroughly after handling. g this product	
7.2. Conditions for safe	storage, including a	any incompatibilities		
Technical measures	:	Provide adequate ventilation. A washin be present	ng facility/water for eye and skin cleaning purposes should	
Storage conditions	:	Keep only in the original container in a not in use	a cool, well ventilated place. Keep container closed when	
Incompatible materials	:	Strong oxidizing agents		
Storage temperature	:	< 32 °C (< 90 °F)		
Storage area	:	Store in dry, cool, well-ventilated area		
Special rules on packaging	:	Correctly labelled		
7.3. Specific end use(s)				
No additional information available				
SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Triethanolamine (102-71-6)				
USA ACGIH	ACGIH TWA (mg/	m³)	5 mg/m³	
Ethanolamine (141-43-5)				
USA ACGIH	ACGIH TWA (ppm	n)	3 ppm	
USA ACGIH	ACGIH STEL (ppr	n)	6 ppm	
USA OSHA	OSHA PEL (TWA)) (mg/m³)	6 mg/m ³	
USA OSHA	OSHA PEL (TWA)) (ppm)	3 ppm	

USA ACGIH	ACGIH STEL (ppm)	6 ppm		
USA OSHA	OSHA PEL (TWA) (mg/m³)	6 mg/m³		
USA OSHA	OSHA PEL (TWA) (ppm)	3 ppm		
Subtilisins (proteolytic enzymes) (9014-01-1)				
USA ACGIH	ACGIH Ceiling (mg/m³)	0.00006 mg/m ³		
8.2. Exposure controls				

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

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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 or latex-free gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Work in well-ventilated zones or use proper respiratory protection
Other information	: Do not eat, drink or smoke during use
SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and cl	nemical properties
Physical state	: Liquid
Appearance	: Clear to slightly hazy
Colour	: Deep reddish purple
Odour	: Floral odor
Odour threshold	: No data available
рН	: 7.25 – 7.75
pH solution	: 7 - 9 (1% Solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
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	: 1.060 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 of use	

Possibility of hazardous reactions 10.3. Hazardous polymerization will not occur

10.4. **Conditions to avoid**

Heat. Light

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10.5. Incompatible materials	
Strong oxidizers	
0.6. Hazardous decomposition products	end during and her the Plan and an and an analytic and Planta Nite and all of the Planta All (NO.)
	sed during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides (NOx)
SECTION 11: Toxicological informati	on
1.1. Information on toxicological effects	
Acute toxicity	: Not classified
Revital-Ox Tenzymatic Detergent with Color	and Fragrance
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Triethanolamine (102-71-6)	
LD50 oral rat	4190 mg/kg
LD50 dermal rabbit	> 20 ml/kg
ATE (oral)	4190,000 mg/kg bodyweight
Ethoxylated coconut oil alkyl amine (61791-1	4-8)
ATE (oral)	500,000 mg/kg bodyweight
Ethanolamine (141-43-5)	
LD50 oral rat	1720 mg/kg
LD50 dermal rabbit	1 ml/kg
ATE (oral)	500,000 mg/kg bodyweight
ATE (dermal)	1100,000 mg/kg bodyweight
ATE (dust,mist)	1,500 mg/l/4h
Tolyltriazole, sodium salt (64665-57-2)	
ATE (oral)	500,000 mg/kg bodyweight
1-Octadecanamine, N,N-dimethyl- (124-28-7)	
LD50 oral rat	2116 mg/kg
LD50 dermal rabbit	4.29 ml/kg
ATE (oral)	500,000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation
	pH: 7.5 – 8.1
Serious eye damage/irritation	: Causes serious eye damage
	pH: 7.5 – 8.1
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled
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
Triethanolamine (102-71-6)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
,	Based on available data, the classification criteria are not met
pecific target organ toxicity (repeated	: Not classified
xposure)	Based on available data, the classification criteria are not met
Ethonolomina (141 42 5)	
Ethanolamine (141-43-5)	- malles had supicipit/day
NOAEL (oral,rat,90 days)	>= mg/kg bodyweight/day
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Harmful if swallowed
Jinponio	

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cording to the federal final rule of hazard communi-	cation revised on 2012 (HazCom 2012)		
Symptoms/injuries after inhalation	: In case of repeated or prolonge difficulties if inhaled. May cause	d exposure : May cause allergy or asthma symp respiratory irritation	toms or breathin
Symptoms/injuries after skin contact	Irritating to eyes and skin		
Symptoms/injuries after eye contact	Causes eye irritation		
Symptoms/injuries after ingestion	: Can occur: gastrointestinal dist	Irbance	
SECTION 12: Ecological information	ion		
2.1. Toxicity			
Citric acid (77-92-9)			
LC50 fishes 1	1516 mg/l (Exposure time: 96 h	- Species: Lepomis macrochirus [Static])	
EC50 Daphnia 1	120 mg/l (Exposure time: 72 h		
Triethanolamine (102-71-6)			
LC50 fishes 1	10600 - 13000 mg/l (Exposure)	me: 96 h - Species: Pimephales promelas [Flow	v-through1)
EC50 other aquatic organisms 1		Species: Desmodesmus subspicatus)	r through j/
LC50 fish 2		h - Species: Pimephales promelas [Static])	
EC50 other aquatic organisms 2		Species: Desmodesmus subspicatus)	
Ethanolamine (141-43-5)			
LC50 fishes 1	227 mg/l (Exposure time: 96 h	Species: Pimephales promelas [Flow-through])	
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h -		
EC50 other aquatic organisms 1	e ()	Species: Desmodesmus subspicatus)	
LC50 fish 2		- Species: Brachydanio rerio [Static])	
2.2. Persistence and degradability			
	alay and Ensurement		
Revital-Ox [™] Enzymatic Detergent with C Persistence and degradability	-	is proportion complian (comply) with the binder	arodobility (
	criteria as laid down in Regulati assertion are held at the dispos	his preparation complies(comply) with the biodegon (EC) No. 648/2004 on detergents. Data to sup al of the competent authorities of the Member St heir direct request or at the request of a detergent	pport this tates and will
2.3. Bioaccumulative potential	1		
Revital-Ox [®] Enzymatic Detergent with C	olor and Fragrance		
Bioaccumulative potential	Not established		
•	Not established		
Citric acid (77-92-9)	1 72 (at 20 %C)		
Log Pow	-1.72 (at 20 °C)		
Triethanolamine (102-71-6)			
BCF fish 1	< 3.9		
Log Pow	-2.53		
Ethanolamine (141-43-5)			
Log Pow	-1.91 (at 25 °C)		
2.4. Mobility in soil			
lo additional information available			
2.5. Other adverse effects			
Other information	: Avoid release to the environme	ıt	
SECTION 13: Disposal considerat	tions		
3.1. Waste treatment methods			
aste disposal recommendations	: Dispose in a safe manner in ac containers	cordance with local/national regulations. Do not i	re-use empty
Additional information		roughly rinsed with large quantities of clean wate ecycling, recovery or waste in accordance with l ons are observed	
cology - waste materials	: Avoid release to the environme	nt	
ECTION 14: Transport information	on		
accordance with DOT			
lo dangerous good in sense of transport reg	julations		
Additional information			
Other information	: No supplementary information	vailable	
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ADR	
Transport document description	: In accordance with DOT
	No dangerous good in sense of transport regulations
Transport by sea	
In accordance with DOT	
No dangerous good in sense of transport	regulations
Air transport	
In accordance with DOT	
No dangerous good in sense of transport	regulations
SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
Citric acid (77-92-9)	
Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
Triethanolamine (102-71-6)	
Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
Ethoxylated coconut oil alkyl amine (61791-14-8)
Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
Ethanolamine (141-43-5)	
Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
Subtilisins (proteolytic enzymes) (90	14-01-1)
Listed on the United States TSCA (Toxic	c Substances Control Act) inventory
Glycerine (56-81-5)	

Not applicable.

SECTION 16: Other informat	tion	
Revision Date	: 06/04/2015	
Other information	: None	
Full text of H-phrases: see section 16		
Acute Tox. 4 (Dermal)		Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation), Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4
Eye Dam. 1		Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A		Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4		Flammable liquids, Category 4
Resp. Sens. 1		Sensitisation — Respiratory, Category 1
Skin Corr. 1A		Skin corrosion/irritation, Category 1A
Skin Corr. 1B		Skin corrosion/irritation, Category 1B
Skin Irrit. 2		Skin corrosion/irritation, Category 2
STOT SE 3		Specific target organ toxicity (single exposure), Category 3
H302		Harmful if swallowed
H312		Harmful in contact with skin
H314		Causes severe skin burns and eye damage
H315		Causes skin irritation
H318		Causes serious eye damage
H319		Causes serious eye irritation
H332		Harmful if inhaled
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335		May cause respiratory irritation

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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.