

according to Regulation (EC) No. 453/2010

Date of issue: 10/24/2018 Version: 1.0

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

Product identifier

Product form : Mixture

Trade name : Cage-Klenz 250 - Acid-Based Cage Wash Detergent

Product code

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For industrial and institutional use only. Not for home use.

Use of the substance/mixture : Acid Based Cage Wash Detergent

Uses advised against

No additional information available.

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)

Supplier:

STERIS Ireland Limited

IDA Business and Technology Park

Tullamore County Offaly R35 X865 Ireland.

Product/Technical Information Phone No: +44 (0) 116 276 8636

Email: asksteris_msds@steris.com

Emergency telephone number

Emergency number : +44 (0) 1895 622 639

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Metals Corr, Cat 1 H290 Skin Corr, Cat 2 H315 Eye Irrit, Cat 2 H319

Full text of H-phrases: see Section 16.

Adverse physicochemical, human health and environmental effects

No additional information available.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05 GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H290 - May be corrosive to metals.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P234 - Keep only in original container. P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves.

 $P302+P352-IF\ ON\ SKIN$: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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P332+P313 – If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 – Take off contaminated clothing and wash before use.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citric acid	(CAS No) 77-92-9 (EC no) 201-069-1 (REACH No) 01-2119457026-42-0067	10 - 30	Eye Irrit. 2, H319

Full text of H-phrases: see Section 16.

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 victim 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. If skin irritation occurs: 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. Seek immediate medical advice.

 First-aid measures after ingestion : If victim completely conscious/alert. Rinse mouth. Do NOT induce vomiting. Get medical advice/

attention. Give water or milk if the person is fully conscious.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : In fine dispersion/spraying/misting: Inhalation of airborne droplets or aerosols may cause

irritation of the respiratory tract.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. fire

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes. If spilled, may cause the floor to be slippery.

6.1.1. For non-emergency personnel

Protective equipment : Use personal protective equipment as required. For further information refer to Section 8:

"Exposure controls/personal protection".

Emergency procedures : Stop leak if safe to do so. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

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Environmental precautions

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

Methods and material for containment and cleaning up

Methods for cleaning up

: Comply with applicable local, national and international regulation. Spills may be picked up with a mop and followed by a water rinse. Residue may be washed down with water. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or

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

: Product for industrial use only. Read label before use. Keep containers closed. Avoid all eye and skin contact and do not breathe vapour and mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures

Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Technical measures

Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

Storage conditions

Keep only in the original container in a cool, well ventilated place. Keep container closed when

not in use.

Incompatible materials

: Strong oxidizing agents. Strong alkalis. Aluminum.

Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available.

Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use ventilation to keep exposure to airborne contaminants below the

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

Eve protection Wear chemical goggles or safety glasses.

Skin and body protection Wear suitable protective clothing

The need for respiratory protection is not anticipated under normal use conditions and with Respiratory protection adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liauid **Appearance**

Colour : Clear to light straw Odour : Mild chemical odour No data available Odour threshold pΗ No data available pH solution 2.4 - 2.8 (1% solution) Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point No data available **Boiling point** : No data available

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Flash point : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C No data available Relative density : No data available

Density : 1.14 g/ml Specific Gravity Water: Completely soluble Solubility

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

Other information

No additional information available.

SECTION 10: Stability and reactivity

Reactivity

No additional information available.

10.2. **Chemical stability**

Stable under normal conditions of use.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Will corrode copper, zinc, aluminum, or their alloys in high concentrations.

Incompatible materials

Respiratory or skin sensitisation

Strong oxidizers. Strong alkalis. Aluminum.

Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified.

Cage-Klenz 250 - Acid-Based Cage Wash Dete	age-Klenz 250 - Acid-Based Cage Wash Detergent	
LD50 oral rat	> 5000 mg/kg	
Skin corrosion/irritation	: Causes skin irritation	

Serious eye damage/irritation : Causes serious eye irritation pH: < 2.4

: Not classified Based on available data, the classification criteria are not met

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

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

Specific target organ toxicity (repeated : 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.

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Potential Adverse human health effects and

symptoms

: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Cage-Klenz 250 - Acid-Based Cage Wash Detergent	
LC50 fishes 1	10% v/v solution: LC50 (fathead minnows) > 750 mg/ml

Citric acid (77-92-9)

LC50 fishes 1 1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

Cage-Klenz 250 - Acid-Based Cage Wash Detergent

Persistence and degradability

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.

12.3. Bioaccumulative potential

Cage-Klenz 250 - Acid-Based Cage Wash Detergent

Bioaccumulative potential Not established.

Citric acid (77-92-9)

Log Pow -1.72 (at 20 °C)

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe

: Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers. Small spills may be flushed to a sanitary sewer with copious amounts of water, if in accordance with local, state or national legislation. Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Ensure all national/local regulations are observed.

regulations are observed

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Ecology - waste materials

 UN-No.
 : 3265

 UN-No.(IATA)
 : 3265

 UN-No. (IMDG)
 : 3265

 UN-No.(ADN)
 : 3265

14.2. UN proper shipping name

Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Transport document description : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CITRIC ACID Solution), 8, III

: Avoid release to the environment.

14.3. Transport hazard class(es)

 Class (UN)
 : 8

 Classification code (UN)
 : C3

 Class (IATA)
 : 8

 Class (IMDG)
 : 8

 Class (ADN)
 : 8

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Hazard labels (UN) : 8



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80
Classification code (UN) : C3

Orange plates :

80 3265

Special provision (ADR): 274Transport category (ADR): 3Tunnel restriction code: ELimited quantities (ADR): 5LExcepted quantities (ADR): E1EAC code: 2XAPP code: B

14.6.2. Transport by sea

4 x 1 gal package not approved for air shipment.

14.6.3. Air transport

No additional information available.

14.6.4. Inland waterway transport

No additional information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance.

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date : 10/24/2018

Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and

mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Other information : None.

Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Metals Corr. 1	Corrosive to metals, Category 1

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Skin Corr. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals
H315	Causes skin irritation
H319	Causes serious eye irritation

SDS EU (REACH Annex II)

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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