

SAFETY DATA SHEET (SDS)



SURFI-SAN

1. Identification

Product Name: SURFI-SAN
Product Code: OSS001
Recommended Use: Concentrated Detergent Disinfectant

Supplier Details: Orlichem (PTY) Ltd
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2. Hazards identification

Classification **Health:** Eye Irritation **Category** 2B
Environmental: Not Classified
Physical: Not Classified

Hazard Statements **Health:** H320 - Causes eye irritation
Environmental: Not Classified
Physical: Not Classified

Precautionary Statements **General:** P102 - Keep out of reach of children.
P103 - Read label before use.
Prevention: P270 - Do not eat, drink or smoke when using this product.
Response: See Section 4 (First- Aid Measures)
Storage: P402+404 - Store in a dry place. Store in a closed container.
Disposal: P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

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3. Composition / Information on ingredients

Substance Mixture

Name	CAS No.	EC No.	Index No.	%
Benzalkonium chloride	8001-54-5	264-151-6	-	2-10

Occupational Exposure Limit(s), if available, are listed in section 8

4. First- Aid Measures

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338)
If eye irritation persists get medical advice/attention.(P337+313)

Skin Contact: IF ON SKIN: Wash with plenty of water (P302+352)

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+340)

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+330+331)
Give Water or Milk to Drink.
Get immediate medical advice/attention. (P315)

Most important symptoms/effects, acute and delayed.

Eye Contact: Possible redness and irritation of affected area

Skin Contact: Not Available

Inhalation: Not Available

Ingestion: Possible Gastrointestinal disturbances

Indication of immediate medical attention and special treatment needed

No Information Available

5. Fire-Fighting measures

Extinguishing Media

Water Wet chemical Foam Dry powder Carbon dioxide

Vaporising liquid Halon

Do not use water jet as an extinguisher, as this will spread the fire

Specific hazards arising from the chemical

Decomposition products may include the following materials:

- Carbon Oxides
- Nitrogen Oxides
- Sulfur oxides

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Special protective equipment and precautions for firefighters

Use personal protective equipment.

Keep containers exposed to fire cool with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

In the event of fire and/or explosion do not breathe fumes.

6. Accident release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

Protective Equipment: Wear protective clothing as per Section 8 (Exposure controls / personal protection)

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away.

Environmental precautions Do not allow contact with surface or ground water.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway

7. Handling and Storage

Precautions for safe handling

Handling: Do not get in eyes. (P262)
Wash hands thoroughly after handling.(P264)
Do not eat, drink or smoke when using this product.(P270)
Wear protective gloves/protective clothing/eye protection/face protection.(P280)

Conditions for safe storage, including any incompatibilities

Storage: Keep out of reach of children. (P102)
Store in a dry place. Store in a closed container.(P402+404)
Keep only in original container. (P234)
Store away from other materials. (P420) (Such As Acids)

Incompatible Materials: Acids and Acidic Material

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8. Exposure controls / personal protection

Control parameters

Material Name	Cas No.	TWA	STEL	Notes
Benzalkonium chloride	8001-54-5	Not Established	Not Established	-

Exposure controls

Engineering Controls: Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Occupational Exposure Control



Avoid Contact with eyes. Wear eye protection in extreme situations

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, and using lavatory and at the end of the day.

9. Physical and chemical properties

Appearance:	Liquid, Light Amber
Odour:	Detergent
Odour threshold:	Not Available
pH:	7.0 – 8.0 (10% Mixture with water)
Melting point / freezing point:	May solidify at freezing point
Initial boiling point and boiling range:	Weighted average: 102.0° C
Flash point:	Not Available
Evaporation rate:	Not Available
Flammability:	Not Available
Upper/lower flammability or explosive limits:	Not Available
Vapour pressure:	Not Available
Vapour density:	Weighted average: 1 (Air = 1)
Relative density:	1.00 – 1.02
Solubility(ies)	Easily soluble in cold water, hot water
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	Not Available
Decomposition temperature:	Not Available
Viscosity:	Not Available
Explosive properties:	Not Available
Oxidising properties:	Not Available

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10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under normal temperatures and pressures.
Possibility of hazardous reactions:	No hazardous reactions known if used for its intended purpose.
Conditions to avoid:	See Section 7 (Handling and Storage)
Incompatible materials:	Acids and Acidic Material
Hazardous decomposition products:	Carbon Oxides, Nitrogen Oxides, Sulfur oxides

11. Toxicological information

Component Name	CAS No.	Data
Benzalkonium chloride	8001-54-5	Acute Toxicity: LD50 - 150 mg/kg (Oral – Mouse) Irritation: LD50 – 1420 mg/kg (Dermal – Rat) Reproductive: Not Available

acute toxicity:	×	Carcinogenicity:	×
skin corrosion/irritation:	×	reproductive toxicity:	×
serious eye damage/irritation:	✓	STOT-single exposure:	×
respiratory or skin sensitization:	×	STOT-repeated exposure:	×
germ cell mutagenicity:	×	aspiration hazard:	×

✓ Data Required to make classification available
× Not Available

Route(s) of entry/exposure

Eye:	Acute (Immediate):	Causes eye irritation (H320)
	Chronic (Delayed):	Not Available
Skin:	Acute (Immediate):	Not Available
	Chronic (Delayed):	Not Available
Inhalation:	Acute (Immediate):	Not Available
	Chronic (Delayed):	Not Available
Ingestion:	Acute (Immediate):	May be harmful if swallowed (H303)
	Chronic (Delayed):	Possible Gastrointestinal disturbances

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12. Ecological information

Toxicity

Components	Species	Test Results
Benzalkonium Chloride (CAS 8001-54-5)		
Fish	Not Available	Not Available
Invertebrates, Aquatic	Not Available	Not Available
Algae	Not Available	Not Available

Persistence and degradability

Abiotic Degradation:	Not Available
Physical- and photo-chemical elimination:	Not Available
Biodegradation:	Product is readily biodegradable

Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow):	Not Available
Bioconcentration factor (BCF):	Not Available

Mobility in Soil

Known or predicted distribution to environmental compartments:	Completely soluble in water
Surface tension:	Not Available
Adsorption/Desorption:	Not Available

Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

Other adverse effects

Not Applicable

13. Disposal considerations

Waste treatment methods

Product waste:	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste:	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Where possible recycle container. Consult manufacturer for recycling options.

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14. Transport information

International transport regulations

Regulatory Information	UN No.	Proper Shipping Name	Class	Packaging Group	Environmental hazards	Label
ARD/RID Class Land-Road/Railway	Not Regulated	Not Regulated	-	-	-	-
ADN Class Inland Waterways	Not Regulated	Not Regulated	-	-	-	-
IMDG Sea	Not Regulated	Not Regulated	-	-	-	-
IATA-DGR Class Air	Not Regulated	Not Regulated	-	-	-	-

Special precautions for user:

None specified

Emergency Response Guidebook Number:

Not Regulated

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

This product is provided only in non-bulk containers.

15. Regulatory Information

Hazard Symbol(s)



Classification

Irritant

Hazardous Statement:

H320 - Causes eye irritation

Precautionary Statements

P262 - Do not get in eyes

SABS Approval:

SANS 1853

Consumer and Industrial applications

Product Use:

Classification and labelling have been performed as close as possible according to EU directives 67/548/EEC, 1999/45/EC including any amendments and the intended use.

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16. Other information

Date of Issue / Last Revision: August 2019
SDS Code: OSS001
Revision: 0 – 0

**THIS SAFETY DATA SHEET COMPILES TO THE:
UNITED NATIONS – GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)
– FIFTH REVISED EDITION 2013**

Disclaimer:

This SDS summarizes at the date of issue, our best knowledge of the health, safety and environmental hazard information related to the product, and in particular, how to safely handle, use and transport the product in the workplace. Since Orlichem (PTY) Ltd and its subsidiaries cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review SDS in the context of how it is to be handled. We shall not assume any liability for the accuracy or completeness of the information herein or any advice given. Product is sold subject to our standard terms and conditions.

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