



SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Surf Total Hygiene

1. Chemical Product and Company Identification

Product identifier

Product name Surf Total Hygiene
Dishwashing Liquid
Product code 200000244859, 68423339
Product description Hand Dishwashing Liquid

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

Details of the supplier of the safety data sheet

Unilever South Africa (Pty) Ltd
15 Nollsworth Crescent
4051 La Lucia
SOUTH AFRICA

**e-mail address of person
responsible for this SDS** Zama.Duma@Unilever.com

Emergency telephone number

National advisory body/Poison Center

Telephone number 031 570 2223 / +27 31 570 2223 (Internal emergency control number)

2. Hazards identification

Classification of the substance or mixture

Product definition Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification -

Physical/chemical hazards Not applicable.

Physical/chemical hazards

Human health hazards Not applicable.

Environmental hazards Not applicable.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Label elements

Safety phrases AISE 1: Keep away from children
AISE 2 : Keep away from eyes. If product gets into eyes rinse thoroughly with water

Supplemental label elements Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings Not applicable.

Tactile warning of danger Not applicable.

Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Not applicable.

Other hazards which do not result in classification Not available.

3. Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Sodium C12-13 Pareth Sulfate	RRN : EC: 295-101-1 CAS : 91783-23-2 Index:	5 - 7	R38 Xi; R41	Eye Dam./Irrit., 1, H318 Skin Corr./Irrit., 2, H315 Aquatic Chronic, 3, H412	[1]
Sodium Dodecylbenzenesulfonate	RRN : 01-2119489428-22 EC: 270-115-0 CAS : 68411-30-3 Index:	5 - 6.9	Xn; R22 Xi; R41 Xi; R38	Acute Tox., 4, H302 Skin Corr./Irrit., 2, H315 Eye Dam./Irrit., 1, H318 Aquatic Chronic, 3, H412	[1]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

See Section 16 for the full text of the H statements declared above.

Occupational exposure limits, if available, are listed in Section 8. For confidentiality reasons, the levels of components listed in Section 3 are given in percentage bands. The bandings do not reflect potential variation in composition of this formulation, but are used simply to mask the exact component levels, which we consider to be proprietary information. The classification given in Section 2 and 15 reflects the exact composition of this mixture.

* exempted according to REACH Art. 2(7) and Annex V; Each starting material of the ionic mixture is registered, if required

4. First aid measures

Description of first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Inhalation

Keep person warm and at rest.

Skin contact

Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Inhalation

No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

Adverse symptoms may include the following:

redness

Inhalation

No specific data.

Skin contact

No specific data.

Ingestion

No specific data.

Indication of any immediate medical attention and special treatment needed

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

No specific treatment.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

Special hazards arising from the substance or mixture

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

No specific data.

Advice for firefighters

Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information

Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up**Small spill**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Specific end use(s)

Recommendations

Not available

Industrial sector specific solutions

Not available

8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Control parameters

Occupational exposure limits

<u>Product/ingredient name</u>	<u>Occupational exposure limits</u>
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No exposure limit value known.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection**Hand protection****Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance****Form**

liquid

Color	blue
Odor	Characteristic.
Odor threshold	Not available
pH	3.5 [Conc. (% w/w) 1,000 g/l]
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Non-flammable.
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Density	Not available
Bulk density	Not available
Solubility in water at room temperature (g/l):	Not available
Upper/lower flammability or explosive limits	Lower: Not available. Upper: Not available.
Vapor pressure	Not available.
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available

Viscosity Dynamic: 1.500 mPa.s
Kinematic: Not available.

Explosive properties Not available

Oxidizing properties Not available

Other information

SADT Not available

Type of aerosol Not available

Heat of combustion Not available.

10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects

Acute toxicity

LD50 > 2,000 mg/kg

Irritation/Corrosion

Eyes

Non-irritating to the eyes.

Skin

Non-irritant to skin.

Sensitization

Non-sensitizer to skin.

Respiratory

Not sensitizing

Repeated dose toxicity

Not available

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Toxicity for reproduction

No known significant effects or critical hazards.

12: Ecological information

Toxicity

No known significant effects or critical hazards.

Persistence and degradability

The surfactants used in this mixture are readily biodegradable.

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.

Bioaccumulative potential

Not considered to be bioaccumulating in the environment

Mobility in soil

Mixture is highly soluble

Results of PBT and vPvB assessment

The substances used in this mixture are neither a PBT- or a vPvB substance

13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging**Methods of disposal**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG
UN number	-		-
UN proper shipping name	Not regulated.		Not regulated.
Transport hazard class(es)	Not regulated.		Not regulated.
Packing group	-		-
Environmental hazards	No.		No.
Special precautions for user	Not available	Not available	Not available
Additional information			

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not available.

15. Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

Carcinogen: None of the components are listed.

Mutagen: None of the components are listed.

Toxic to reproduction: None of the components are listed.

PBT: None of the components are listed.

vPvB: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

Europe inventory

Not determined.

Industrial emissions (integrated pollution prevention and control) - Air-

Not listed

Industrial emissions (integrated pollution prevention and control) - Water-

Not listed

Aerosol dispensers Not applicable.**National regulations****Remark** No additional remark.**International regulations****Chemical Safety Assessment** This product contains substances for which Chemical Safety Assessments are still required.**16. Other information****Abbreviations and acronyms**

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Key literature references and sources for data

Evaluation method used for mixture classification: Calculation method.

Full text of abbreviated**H statements**

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**Full text of
classifications
[CLP/GHS]**

Acute Tox. 3, H301: ACUTE TOXICITY: oral - Category 3

Acute Tox. 4, H302: ACUTE TOXICITY: oral - Category 4

Acute Tox. 2, H310: ACUTE TOXICITY: dermal - Category 2

Skin Corr./Irrit. 1C, H314: SKIN CORROSION/IRRITATION - Category 1C

Skin Corr./Irrit. 2, H315: SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317: SKIN SENSITIZATION - Category 1

Eye Dam./Irrit. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 1

Acute Tox. 2, H330: ACUTE TOXICITY: inhalation - Category 2

Aquatic Acute 1, H400: AQUATIC HAZARD (ACUTE) - Category 1

Aquatic Chronic 1, H410: AQUATIC HAZARD (LONG-TERM) - Category 1

Aquatic Chronic 3, H412: AQUATIC HAZARD (LONG-TERM) - Category 3

**Full text of abbreviated
R phrases**

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.

R22- Harmful if swallowed.

R34- Causes burns.

R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R43- May cause sensitization by skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]	T - Toxic
	C - Corrosive
	Xn - Harmful
	Xi - Irritant
	N - Dangerous for the environment.
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