



SAFETY DATA SHEET

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

Sunlight Dishwashing liquid – Original variant

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Sunlight Dishwashing liquid – Original variant
Product description Hand Dishwash Liquid

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

Industrial uses: Uses of substances as such or in preparations at industrial sites

Consumer uses: Private households (= general public = consumers)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3 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

1.4 Emergency telephone number

National advisory body/Poison Centre

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

Supplier

Telephone number Homecare 0860 572 908 Personal Care 0860 572 861

Hours of operation

2. Hazards identification2.1 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 Not Classified

Physical/chemical Not applicable.

hazards

Human health hazards Not applicable.

Environmental hazards Not applicable.

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

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

2.2 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
 AISE 3: Rinse hands after use.
 AISE 4: People with sensitive or damaged skin should avoid prolonged contact with the product.

Supplemental label Not applicable.
elements

Special packaging requirements

Containers to be fitted Not applicable.

with child-resistant

fastenings

Tactile warning of danger Not applicable.

2.3 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 benzenesulfonate C10-13 alkyl derivs.	RRN : 01- 2119489428-22 EC:246-680-4 CAS : 25155-30-0 Index:	10 - 20	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]
Sodium Laureth Sulfate	RRN : 01- 2119488639-16 EC:221-416-0 CAS : 1335-72-4	1 - 5	Xi; R38 Xi; R41	Skin Corr./Irrit., 2, H315 Eye Dam./Irrit., 1, H318 Eye Dam./Irrit., 2,	[1]

	Index:			H319 Aquatic Chronic, 3, H412	
Sodium hydroxide	RRN : 01- 2119457892-27 EC:215-185-5 CAS : 1310-73-2 Index:011-002-00-6	1 - 3	C; R35	Skin Corr./Irrit., 1A, H314 Skin Corr./Irrit., 1B, H314 Eye Dam./Irrit., 2, H319 Skin Corr./Irrit., 2, H315	[1]
Sodium Cumenesulfonate	RRN : 01- 2119489411-37 EC:248-983-7 CAS : 28348-53-0 Index:	1 - 5	Xi; R36	Eye Dam./Irrit., 2, H319	[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 R phrases or 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

4.1 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

Move exposed person to fresh air. Keep person warm and at rest. Get medical attention if symptoms occur.

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.

4.2 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

Adverse symptoms may include the following:

irritation

Ingestion

No specific data.

4.3 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

5.1 Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

None known.

5.2 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

Decomposition products may include the following materials:

metal oxide/oxides

5.3 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.

This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 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

6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

Avoid dispersal of spilt 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). Water polluting material.

6.3 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 the release from upwind. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 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).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

7.2 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 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).

8.1 Control parameters

Occupational exposure limits

<u>Product/ingredient name</u>	<u>Occupational exposure limits</u>
Sodium hydroxide	OEL(1995-08-25)) Short term OEL-RL: 2 mg/m ³

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.

8.2 Exposure controls

Appropriate engineering controls

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

Hygiene measures

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. Industrial use
Wear eye protection. Chemical splash goggles or face shield.

Skin protection

Hand protection

For industrial use.

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., For industrial use, Wear suitable protective clothing., Avoid prolonged or repeated contact with skin.

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

A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

9.1 Information on basic physical and chemical properties

Appearance

Form	liquid
Colour	green
Odour	perfumed
Odour threshold	Not available
pH	5
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	1.057 g/cm ³
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.

Vapour pressure Not available.

Vapour 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

Oxidising properties Not available

9.2 Other information

SADT Not available

Type of aerosol Not available

Heat of combustion Not available.

10. Stability and reactivity

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

10.2 Chemical stability The product is stable.

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

hazardous reactions occur.

10.4 Conditions to avoid No specific data.

10.5 Incompatible materials No specific data.

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

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 > 2,000 mg/kg

Irritation/Corrosion

Eyes

The mixture is not an irritant for eyes.

Skin

The mixture is not an irritant for the skin.

Sensitisation

No sensitization studies have been performed on the mixture. Based on the composition as indicated in section 3, it's not likely that the mixture will cause sensitisation by skin contact

Respiratory

No inhalation irritancy studies have been performed on the mixture. Based on the composition as indicated in section 3, it is not likely that this mixture will cause irritation of the respiratory tract.

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

12.1 Toxicity

No ecological research on the mixture has been performed based on the composition as indicated in section 3.

12.2 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.

12.3 Bioaccumulative potential

Not considered to be bioaccumulating in the environment

12.4 Mobility in soil

Mixture is highly soluble

12.5 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).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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 minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADR/RID	ADN	IMDG
14.1 UN number	-		-

14.2 UN proper shipping name	Not regulated.		Not regulated.
14.3 Transport hazard class(es)	Not regulated.		Not regulated.
14.4 Packing group	-		-
14.5. Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available	Not available	Not available
Additional information			

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

Not available.

15. Regulatory information

15.1 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 authorisation

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.

Integrated pollution prevention and control list (IPPC) - Air-

Not listed

Integrated pollution prevention and control list (IPPC) - Water-

Not listed

Aerosol dispensers Not applicable.

National regulations

Remark This product has been classified in accordance with Dangerous Preparations Directive (1999/45/EC as amended).

International regulations

15.2 Chemical Safety This product contains substances for which Chemical Safety Assessments
Assessment are still required.

16. Other information

Abbreviations and acronyms	<p>ATE = Acute Toxicity Estimate</p> <p>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]</p> <p>DNEL = Derived No Effect Level</p> <p>EUH statement = CLP-specific Hazard statement</p> <p>PNEC = Predicted No Effect Concentration</p> <p>RRN = REACH Registration Number</p>
Key literature references and sources for data	<p>The acute toxicity (LD50) of this mixture, as given in section 11, has been calculated using the Proportionality Method (Holland, G.H. (1994). Verification of a Mathematical Method for the Estimation of the Acute Ingestion Hazard of Detergent Preparations. Toxic in Vitro, Vol. 8 No. 6 pp1177 – 1183, Elsevier Science Limited, Wielka Brytania.)</p>
Full text of abbreviated H statements	<p>H302 Harmful if swallowed.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p>
Full text of classifications [CLP/GHS]	<p>Acute Tox. 4, H302: ACUTE TOXICITY: ORAL - Category 4</p> <p>Aquatic Chronic 3, H412: LONG-TERM AQUATIC HAZARD - Category 3</p> <p>Eye Dam./Irrit. 1, H318: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</p> <p>Eye Dam./Irrit. 2, H319: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</p> <p>Skin Corr./Irrit. 1A, H314: SKIN CORROSION/IRRITATION - Category 1A</p> <p>Skin Corr./Irrit. 1B, H314: SKIN CORROSION/IRRITATION - Category 1B</p>

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

Full text of abbreviated R22- Harmful if swallowed.
R phrases R41- Risk of serious damage to eyes.
R35- Causes severe burns.
R36- Irritating to eyes.
R38- Irritating to skin.

Full text of C – Corrosive
classifications Xn –
[DSD/DPD] Harmful. Xi -
Irritant.

Date of printing 17.05.2018

Date of issue Date of 17.05.2018
revision

Date of previous issue 00.00.0000

Reason: Not Applicable

Version 01

Notice to reader

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