

our safety data sheet for...
dishwasher liquid



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

1.1 Product Identifier

Product Name: Dishwasher Liquid
Product Code: DWD050DEL01R / DWD200DEL01R (concentrate)

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

Use of the Substance/Mixture: Low foam alkaline cleaner.
Recommended restrictions on use: We do not have information on restrictions. They will be included when available.

1.3 Details of the supplier of the safety data sheet

Company: Delphis Eco, Unit 1, River Reach, Gartons Way, London SW11 3SX

1.4 Emergency telephone number

Emergency phone number: t. 0203 397 0096 (office hours only) f. 0870 974 7219 e: sales@delphiseco.com

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to EU Directive 1999/45/EC
Hazard Symbol/Category of danger Risk Phrases
Corrosive R35

Classification according to Regulation (EC) No 1272/2008: Refer to Section 16.
For the wording of the listed R phrases or H statements, refer to section 16.

2.2 Label elements

Labelling according to EU Directive 1999/45/EC

Hazard Symbol:



Classification: C: Corrosive.
Risk Phrases: R35: Causes severe burns.
S2: Keep out of reach of children.
Safety Phrases: S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
Labelling according to Regulation (EC) No 1272/2008: Refer to Section 16.

2.3 Other hazards

No other information is available.
Hazardous components which must be listed on the label: Contains Potassium Hydroxide

3. Composition/Information on Ingredients.

3.2 Mixtures

Ingredient Name	Identifiers	Classification 67/548/EEC	Classification EC/1272/2008	Concentration Range
Potassium Hydroxide	EC – 215-181-3 CAS – 1310-58-3	Harmful R22 Corrosive R35	Acute Tox 4 H302 Skin Corr. 1A H314	10-20%

For the wording of the listed R phrases or H statements, refer to section 16.

4. First Aid Measures

4.1 Description of first aid measures

Eye contact: Avoid contact with eyes, if product gets into eyes, rinse with water.
Skin contact: Avoid contact with skin, if product gets onto skin wash with water and remove contaminated clothing.
Ingestion: Do not drink, if swallowed drinking water may be beneficial, do not induce vomiting.
Inhalation: Avoid inhaling product, move to fresh air if in discomfort.

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4.2 Most important symptoms and effects, both acute and delayed

No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Foam, Dry Powder, Co2, fine water spray suitable.
Unsuitable Extinguishing Media: None.

5.2 Special hazards arising from the substance or mixture

Not combustible.

5.3 Advice for fire fighters

Wear self contained breathing apparatus and protective clothing. Cool closed containers exposed to the fire with water spray. Prevent water run-off from discharging into drains.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves. Avoid contact with skin and eyes.

6.2 Environmental precautions

Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.

6.3 Methods and materials for containment and cleaning up

Do not allow product to soak into drains or water courses. Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

6.4 Reference to other sections

For personal protection refer to section 8.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Observe good standards of industrial hygiene. Take note of emission threshold.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store between 10-35°C. Protect from frost. Do not store in extremes of temperature or near foodstuffs.

7.3 Specific end uses

To be used as a low foam alkaline cleaner.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredient Name	8hr TWA	15min STEL
Potassium Hydroxide	WEL	2mg/m3

8.2 Exposure controls

Respiratory Protection: Unlikely to be necessary where adequate ventilation is provided.
Eyes: Eye protection should be worn.
Hand: PVC or rubber gloves are recommended.
Skin: Wear protective clothing. Remove contaminated clothing and wash with soap and water.

8.2.3 Environmental exposure controls

Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

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9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties
Appearance: Very Pale Amber Fluid
Odour: Bland
Odour Threshold: Not determined
pH Neat: 14.0 typical
Freezing Point: 0°C typical
Initial Boiling Point & Boiling Range: 100°C
Flash Point: Not applicable
Evaporation rate: Not determined
Flammability: Not Flammable
Upper/Lower Flammability Limits: Not applicable
Vapour Pressure: Water=18mm Hg
Vapour Density: Not determined
Relative Density: 1.18 typical @ 20°C
Solubility: Soluble in water
Partition Coefficient (Oct/Water): Not determined
Auto Ignition Temperature: Not applicable
Decomposition Temperature: >100°C
Viscosity: As water
Explosive Properties: Not applicable
Oxidising Properties: Not applicable

9.2 Other Information
pH @ 2% in water: 13.5 typical

10. Stability and Reactivity

10.1 Reactivity
May react violently with strong acids.

10.2 Chemical Stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to Avoid
High temperatures, naked flames.

10.5 Incompatible materials
Avoid contact with acids, aluminium, tin, zinc or alloys containing these metals.

10.6 Hazardous decomposition products
Product is stable under normal conditions.

11. Toxicological Information

11.1 Information on toxicological effects
Eyes: Product is destructive to eye tissue and can even cause blindness.
Skin: Product is destructive to skin tissue and causes severe burns.
Inhalation: Mists and vapours may cause damage to upper respiratory tract and even lung tissue.
Ingestion: If ingested this substance can cause severe burns and complete tissue perforation of mucous membranes.

Acute Toxicity: Potassium Hydroxide LD50 Oral (rat) 365mg/kg

12. Ecological Information

12.1 Toxicity
Eco-toxicity: Potassium Hydroxide LC50 96hrs (fish) 80-85 mg/l
EC50 48hrs (daphnia) 40-240 mg/l

12.2 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, (or are undergoing testing to obtain a derogation within the terms of the directive). Data to

msds according to regulation (EC) no. 453/2010

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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 Bio-accumulative potential
Not expected to bio-accumulate.

12.4 Mobility in soil
Soluble in water.

12.5 Results of PBT and vPvB assessment
No information.

12.6 Other adverse effects
Not known.

13. Disposal Recommendations

13.1 Waste treatment methods
Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

14. Transport Information

14.1 UN number
1719

14.2 UN Proper shipping name
ADR Caustic Alkali Liquid NOS (Contains Potassium Hydroxide)
IMDG Caustic Alkali Liquid NOS (Contains Potassium Hydroxide)

14.3 Transport hazard classes
ADR Class: 8
Hazard ID No. 80
Classification code: C5
Tunnel restriction code: E
Labels: Class 8



G Class: 8
EMS: F-A, S-B
Labels: Class 8



14.4 Packing group
ADR: III
IMDG: III

14.5 Environmental hazards
Labelling according to 5.2.1.8 ADR: No
Labelling according to 5.2.1.6.3 IMDG: No
Classified as 'P' Marine pollutant: No
according to 2.10 IMDG

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code
No information.

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15. Regulatory Information

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

Safety data sheet according to Regulation (EC) No. 453/2010. This mixture has been classified and labelled in accordance with 1999/45/EC. Classification in accordance with EC 1272/2008 is derived from Annex VII in accordance with Article 61 paragraph 5. 1907/2006/EC - Registration, Evaluation, Authorisation and Restriction of Chemicals and amendments. 98/24/EC - Protection of workers from the risk related to chemical agents at work. Refer to Directive for details of requirements. 1272/2008 - Classification, labelling and packaging of substances and mixtures and amendments. Refer to the relevant EU/national regulation for details of any actions or restrictions required by the above Regulation(s)/Directive(s). The regulatory information provided may not be comprehensive. Other regulations may apply to this product.

15.2 Chemical safety assessment

No information at the present time.

16. Other Information

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Hazard Statements
Skin Corrosion/Irritation	Category 1A	H314

Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols:

Signal word: Danger
 Hazard Statements: H314: Causes severe skin burns and eye damage.

Precautionary Statements:

General: P101: If medical advice is needed, have product container or label at hand.
 P102: Keep out of reach of children.

Prevention: P262: Do not get in eyes, on skin or on clothing.
 P280: Wear protective gloves/eye protection.

Response: P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER or doctor/physician.

Full text of R-phrases referred to under sections 2 & 3:

R22: Harmful if swallowed.
 R35: Causes severe burns.

Full text of H-Statements referred to under sections 2 & 3:

H314: Causes severe skin burns and eye damage.
 H302: Harmful if swallowed.

Training Advice: Normal use of this product shall imply use in accordance with the instructions on the packaging. Users should be trained in good industrial hygiene practise. This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

Do not mix with other chemicals.

Date: 25.07.13

Legal Disclaimer: The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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