



SAFETY DATA SHEET

Econo Wash

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Econo Wash

Other means of identification : Not applicable.

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company Ecolab Gulf FZE
P.O. Box 17063
Jebel Ali Free Zone Area, Near Container Terminal 3 - North Zone
Dubai
UAE
00971 4 8014444 Customer Services, 00971 48146800 00971 4
8014000 Reception phone numbers

Nalco Egypt Trading
5th Settlement, South 90th St.
The Address Building No 67th – 1st floor
New Cairo, Cairo, Egypt 11835
0020 2 25 37 1195,

Ecolab Maroc S.A.R.L.
Batiment, Lot. Mounir 1, Parc Industriel
Attawfik
Route 1029
Sidi Maarouf, Casablanca, Morocco
00212 22 58 25 30 - 35,

Emergency telephone number : +32-(0)3-575-5555

Issuing date : 06.11.2018

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

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| Hazard Statements | : May be corrosive to metals. Causes severe skin burns and eye damage. |
| Precautionary Statements | : Prevention: Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant. |
| Other hazards | : None known. |

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
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| Pure substance/mixture | : Mixture | |
| Chemical Name sodium hydroxide | CAS-No. 1310-73-2 | Concentration: (%) 5 - 10 |

Section: 4. FIRST AID MEASURES

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| In case of eye contact | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. |
| In case of skin contact | : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. |
| If swallowed | : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| If inhaled | : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur. |
| Protection of first-aiders | : If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| Notes to physician | : Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | : See Section 11 for more detailed information on health effects and symptoms. |

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Section: 5. FIREFIGHTING MEASURES

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| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards during firefighting | : Not flammable or combustible. |
| Hazardous combustion products | : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus |
| Special protective equipment for firefighters | : Use personal protective equipment. |
| Specific extinguishing methods | : 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. |

Section: 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : Do not allow contact with soil, 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

Section: 7. HANDLING AND STORAGE

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| Advice on safe handling | : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. |
| Conditions for safe storage | : Keep only in original packaging. Absorb spillage to prevent material damage. Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. |
| Storage temperature | : 0 °C to 50 °C |
| Packaging material | : Suitable material: Plastic material Unsuitable material: Mild steel, Aluminium |

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Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|------------------|-----------|------------------|---------------------------|---------|
| sodium hydroxide | 1310-73-2 | STEL OEL-RL | 2 mg/m ³ | ZA OEL |
| sodium hydroxide | 1310-73-2 | CLV | 2 mg/m ³ | BH OEL |
| sodium hydroxide | 1310-73-2 | Ceiling limit | 2 mg/m ³ | ARE OEL |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

- Eye protection : Wear eye protection/face protection.
- Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : clear, colourless
- Odour : no data available
- pH : 13.0 - 14.0, (100 %)
- Flash point : Not applicable.
- Odour Threshold : no data available
- Melting point/freezing point : no data available
- Initial boiling point and boiling range : no data available
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Upper explosion limit : no data available
- Lower explosion limit : no data available
- Vapour pressure : no data available

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| Relative vapour density | : no data available |
| Relative density | : 1.017 - 1.117 |
| Water solubility | : no data available |
| Solubility in other solvents | : no data available |
| Partition coefficient: n-octanol/water | : no data available |
| Auto-ignition temperature | : no data available |
| Thermal decomposition | : no data available |
| Viscosity, kinematic | : no data available |
| Explosive properties | : no data available |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Molecular weight | : no data available |
| VOC | : no data available |

Section: 10. STABILITY AND REACTIVITY

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| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : None known. |
| Incompatible materials | : Mild steel Aluminium |
| Hazardous decomposition products | : In case of fire hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus |

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

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| Eyes | : Causes serious eye damage. |
| Skin | : Causes severe skin burns. |
| Ingestion | : Causes digestive tract burns. |
| Inhalation | : May cause nose, throat, and lung irritation. |
| Chronic Exposure | : Health injuries are not known or expected under normal use. |

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

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|--------------|---------------------------------|
| Skin contact | : Redness, Pain, Corrosion |
| Ingestion | : Corrosion, Abdominal pain |
| Inhalation | : Respiratory irritation, Cough |

Toxicity

Product

| | |
|-----------------------------------|---------------------|
| Acute oral toxicity | : no data available |
| Acute inhalation toxicity | : no data available |
| Acute dermal toxicity | : no data available |
| Skin corrosion/irritation | : no data available |
| Serious eye damage/eye irritation | : no data available |
| Respiratory or skin sensitization | : no data available |
| Carcinogenicity | : no data available |
| Reproductive effects | : no data available |
| Germ cell mutagenicity | : no data available |
| Teratogenicity | : no data available |
| STOT - single exposure | : no data available |
| STOT - repeated exposure | : no data available |
| Aspiration toxicity | : no data available |

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

| | |
|-----------------------|---|
| Environmental Effects | : This product has no known ecotoxicological effects. |
|-----------------------|---|

Product

| | |
|---|---------------------|
| Toxicity to fish | : no data available |
| Toxicity to daphnia and other aquatic invertebrates | : no data available |
| Toxicity to algae | : no data available |

Components

| | |
|---|--|
| Toxicity to daphnia and other aquatic invertebrates | : sodium hydroxide 48 h EC50: 40 mg/l |
|---|--|

Persistence and degradability

Poorly biodegradable

Bioaccumulative potential

no data available

Mobility in soil

no data available

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Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------|---|
| Disposal methods | : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations. |

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

| | | |
|------------------------------|---|---------------------------|
| UN number | : | 1824 |
| UN proper shipping name | : | SODIUM HYDROXIDE SOLUTION |
| Transport hazard class(es) | : | 8 |
| Packing group | : | II |
| Environmental hazards | : | No |
| Special precautions for user | : | None |

Air transport (IATA)

| | | |
|---------------------------|---|---------------------------|
| UN number | : | 1824 |
| Description of the goods | : | Sodium hydroxide solution |
| Class | : | 8 |
| Packing group | : | II |
| Environmentally hazardous | : | No |

Sea transport (IMDG/IMO)

| | | |
|--------------------------|---|---------------------------|
| UN number | : | 1824 |
| Description of the goods | : | SODIUM HYDROXIDE SOLUTION |
| Class | : | 8 |
| Packing group | : | II |
| Marine pollutant | : | No |

Section: 15. REGULATORY INFORMATION

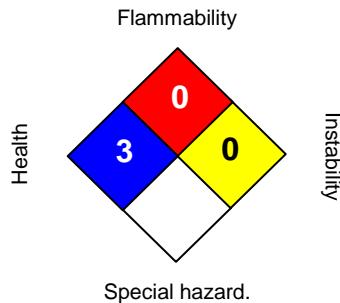
For Regulatory information please contact your Ecolab sales representative.

Section: 16. OTHER INFORMATION

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NFPA:



HMIS III:

| | |
|-----------------|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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Version : 1.0

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.