

Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

ECXLAE

Product name	:	Solid Clean H
Product code	:	114695E
Use of the Substance/Mixture	:	Machine Warewashing Detergent
Substance type:	:	Mixture
		For professional users only.
Product dilution information	:	No dilution information provided.

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

Identified uses	:	Dishwash and rinse aid product; Automatic process
Recommended restrictions on use	:	Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company	:	Ecolab Deutschland GmbH Ecolab-Allee 1 40789 Monheim am Rhein, Germany +49 (0)2173 599 0 OfficeService.DEDUS@ecolab.com

1.4 Emergency telephone number

Emergency telephone number	:	0049-2173-5991700 (24/7)
Poison Information Centre telephone number	:	+49 (0)551 19240
Date of Compilation/Revision version		24.04.2015 1.1

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)			
Skin corrosion, Category 1A	H314		
Classification (67/548/EEC, 1999/45/EC)			

C; CORROSIVE

R35

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)			
Hazard pictograms			
Signal Word	Danger		
Hazard Statements	H314	Causes severe skin burns and eye damage.	
Precautionary Statements	Prevention: P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
	Response: P303 + P361 + P3	353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
	P305 + P351 + P3	for several minutes. Remove contact lenses, if	
	P310	present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.	

Hazardous components which must be listed on the label: sodium hydroxide

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Classification	Concentration:
	EC-No.	(67/548/EEC)	(REGULATION (EC) No	[%]
	REACH No.		1272/2008)	
sodium hydroxide	1310-73-2	C; R35	Skin corrosion Category 1A;	>= 30 - < 50
	215-185-5		H314	
	01-2119457892-27		Corrosive to metals Category	
			1; H290	

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

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In case of eye contact
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: 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.

Solid Clean H		

In case of skin contact	Wash off immediately with plenty of water for at least 15 minute Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.	es.
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 attent if symptoms occur.	tion

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	: None known.	
5.2 Special hazards arising from	the substance or mixture	
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 	3:

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Use personal protective equipment.
Further information	:	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

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency	:	Ensure adequate ventilation. Keep people away from and upwind
personnel		of spill/leak. Avoid inhalation, ingestion and contact with skin and
		eyes. When workers are facing concentrations above the

Solid Clean H	
	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.
Advice 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.
6.2 Environmental precautions	

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

6.3 Methods and materials for containment and cleaning up

6.4 Reference to other sections

See Section 1 for emergency contact information. For personal protection see section 8. See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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.
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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Storage temperature	:	0 °C to 40 °C

7.3 Specific end uses

: Dishwash and rinse aid product; Automatic process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

DNFI

DINEL		
sodium hydroxide	•••	End Use: Workers
		Exposure routes: Inhalation

Potential health effects: Long-term local effects Value: 1 mg/m3
End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term local effects Value: 1 mg/m3

8.2 Exposure controls

Engineering measures	: Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.
Individual protection measu	res
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-us Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushin of the eyes and body in case of contact or splash hazard.
Eye/face protection (EN 166)	: Safety goggles Face-shield
Hand protection (EN 374)	 Wear the following personal protective equipment: Nitrile rubber butyl-rubber Impervious gloves Gloves should be discarded and replaced if there is any indicati of degradation or chemical breakthrough.
Skin and body protection (EN 14605)	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection (EN 143, 14387)	: None required if airborne concentrations are maintained below exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, metho or procedures of work organization.
Environmental exposure co	ntrols
General advice	: Consider the provision of containment around storage vessels.
tion: 9. PHYSICAL AND CHE	

Appearance	:	solid
Colour	:	white
Odour	:	odourless
рН	:	12.5 - 13.5, 1 %

Flash point	: Not applicable.
Odour Threshold	: Not applicable and/or not determined for the mixture
Melting point/freezing point	: Not applicable and/or not determined for the mixture
Initial boiling point and boiling range	: Not applicable and/or not determined for the mixture
Evaporation rate	: Not applicable and/or not determined for the mixture
Flammability (solid, gas)	: Not applicable and/or not determined for the mixture
Upper explosion limit	: Not applicable and/or not determined for the mixture
Lower explosion limit	: Not applicable and/or not determined for the mixture
Vapour pressure	: Not applicable and/or not determined for the mixture
Relative vapour density	: Not applicable and/or not determined for the mixture
Relative density	: 1.5 - 1.7
Water solubility	: soluble
Solubility in other solvents	: Not applicable and/or not determined for the mixture
Partition coefficient: n- octanol/water	: Not applicable and/or not determined for the mixture
Auto-ignition temperature	: Not applicable and/or not determined for the mixture
Thermal decomposition	: Not applicable and/or not determined for the mixture
Viscosity, kinematic	: Not applicable and/or not determined for the mixture
Explosive properties	: Not applicable and/or not determined for the mixture
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition products

Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure	: Eye contact, Skin contact
Toxicity	
Acute oral toxicity	: There is no data available for this product.
Acute inhalation toxicity	: There is no data available for this product.
Acute dermal toxicity	: There is no data available for this product.
Skin corrosion/irritation	: There is no data available for this product.
Serious eye damage/eye irritation	: There is no data available for this product.
Respiratory or skin sensitization	: There is no data available for this product.
Carcinogenicity	: There is no data available for this product.
Reproductive effects	: There is no data available for this product.
Germ cell mutagenicity	: There is no data available for this product.
Teratogenicity	: There is no data available for this product.
STOT - single exposure	: There is no data available for this product.
STOT - repeated exposure	: There is no data available for this product.
Aspiration toxicity	: There is no data available for this product.
Potential Health Effects	
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 expo	osure
Eye contact	: Redness, Pain, Corrosion

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

Section: 12. ECOLOGICAL INFORMATION

12.1 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

12.2 Persistence and degradability

Product

Biodegradability	: The surfactants contained in the product are biodegradable
	according to the requirements of the detergent regulation 648/2004/EC

Components

Biodegradability : sodium hydroxide Result: Not applicable.

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste.Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product	: 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.		
Contaminated packaging	: 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.		
European Waste Catalogue	: 200115* - alkalines		
Section: 14. TRANSPORT INFO	Section: 14. TRANSPORT INFORMATION		

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are

Land transport (ADR/ADN/RID)

in compliance with the selected mode of transport.

14.1 UN number	: 1823
14.2 UN proper shipping	: SODIUM HYDROXIDE, SOLID
name	
14.3 Transport hazard	: 8
class(es)	
14.4 Packing group	: 11
14.5 Environmental hazards	: No
14.6 Special precautions for	: None
user	
Air transport (IATA)	
14.1 UN number	: 1823
14.2 UN proper shipping	: Sodium hydroxide, solid
name	
14.3 Transport hazard	: 8
class(es)	
14.4 Packing group	: 11
14.5 Environmental hazards	: No
14.6 Special precautions for	: None
user	
Sea transport (IMDG/IMO)	
14.1 UN number	: 1823
14.2 UN proper shipping	: SODIUM HYDROXIDE, SOLID
name	
14.3 Transport hazard	: 8
class(es)	
14.4 Packing group	:
14.5 Environmental hazards	
14.6 Special precautions for	: None
user	
14.7 Transport in bulk	: Not applicable.
according to Annex II of	

MARPOL 73/78 and the IBC Code

Section: 15. REGULATORY INFORMATION

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

according to Detergents Regulation EC 648/2004	:	5 % or over but less than 15 %: Polycarboxylates less than 5 %: Phosphonates, Non-ionic surfactants
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National Regulations

German storage class

Take note of Dir 94/33/EC on the protection of young people at work.

Hazard class for water	:	WGK 1 Classification according VwVwS, Annex 4.

: 8B

15.2 Chemical Safety Assessment

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

Section: 16. OTHER INFORMATION

Full text of R-Phrases

R35

Causes severe burns.

Full text of H-Statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Full text of other abbreviations

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

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.

ANNEX: EXPOSURE SCENARIOS

DPD+ Substances:

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	sodium hydroxide	1310-73-2	215-185-5
Inhalation	sodium hydroxide	1310-73-2	215-185-5
Dermal	sodium hydroxide	1310-73-2	215-185-5
Eyes	sodium hydroxide	1310-73-2	215-185-5
aquatic environment	No lead substance		

Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
sodium hydroxide		100 g/ml		40 g/mol

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

www.ecetoc.org/tra

Short title of Exposure Scenario	:	Dishwash and rinse aid product; Automatic process
Use descriptors		
Main User Groups	:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	:	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	:	PROC2: Use in closed, continuous process with occasional controlled exposure PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
Product categories	:	PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	:	ERC8a: Wide dispersive indoor use of processing aids in open systems