# **SAFETY DATA SHEET**



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

# **HYGENIL ALCA**

Version : 2

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : HYGENIL ALCA

Product code : 112733E

Product use : Laundry product

Product is for professional use only

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

Identified uses

Laundry aid (non-gasing). Automatic process Laundry aid (non-gasing). Semi automatic process

Laundry aid (non-gasing). Manual process

#### Uses advised against

None known.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/ Distributor/ : Ecolab Export GmbH

Importer Reisholzer Werftstrasse 42

40589 Düsseldorf

Germany

Tel: ++49 211 9893 356 Fax: ++ 49 211 9893 207

Email: DEDUSEXPServices@ecolab.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number**: Giftinformationszentrum-Nord (GIZ-Nord) Göttingen)

Robert-Koch-Straße 40 37075 Göttingen Tel.: ++49 (0)551 19240 Fax: 0551/3831881 (24/7)

Manufacturer/ Distributor/ Importer

**Telephone number** : Ecolab Deutschland GmbH

+49 (0) 211 98 93 700 (24/7)

#### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr. 1A, H314

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

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : C; R35

**Human health hazards**: Causes severe burns.

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

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#### HYGENIL ALCA

#### **SECTION 2: Hazards identification**

Hazard pictograms

Signal word : Danger

Contains : Sodium hydroxide

**Hazard statements**: H314 Causes severe skin burns and eye damage.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves and eye/face protection.

Response : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or 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.

2.3 Other hazards

Other hazards which do not result in classification

: Not applicable.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Sodium hydroxide	REACH #: 01- 2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	25-35	C; R35	Skin Corr. 1A, H314	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### <u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

Chemical burns must be treated promptly by a physician.

: Get medical attention immediately. Call a poison center or physician. Remove Inhalation

> victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or physician. Flush

> contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reusing. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. Clean shoes

thoroughly before reuse.

: Get medical attention immediately. Call a poison center or physician. Wash out Ingestion

mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband. Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it

> is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapour or dust that is very irritating or corrosive to the respiratory

system.

Skin contact : Causes severe burns.

Ingestion : May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

**Eve contact** : Adverse symptoms may include the following:

> pain watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

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#### **SECTION 4: First aid measures**

Ingestion : Adverse symptoms may include the following:

stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>.

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. 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.

#### SECTION 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. Keep unnecessary and unprotected personnel from entering. Try to avoid touching or walking through spilt material. Do not breathe 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 the information in "For non-emergency personnel".

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).

#### 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.

### **SECTION 6: Accidental release measures**

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the 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. Contaminated absorbent material may pose the same hazard as the spilt product.

# 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.

## **SECTION 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 get in eyes or on skin or clothing. Do not breathe vapour 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. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 5 to 40°C (41 to 104°F). 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. Separate from acids. 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 Industrial sector specific solutions Not applicable until Exposure Scenarios for substances become available.Not applicable until Exposure Scenarios for substances become available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
No exposure limit value known.	

#### **Derived effect levels**

No DNELs available for the mixture.

#### **Predicted effect concentrations**

No PNECs available for the mixture.

#### 8.2 Exposure controls

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# SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour 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

(EN 166)

: Highly recommended : Goggles, face shield, or other full-face protection.

**Skin protection** 

Hand protection (EN 374)

: Highly recommended: Gloves - butyl rubber, nitrile rubber ( Breakthrough time: 1 -4 hours).

**Body protection** (EN 14605)

: 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 (EN 143, 14387)

: 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.

Thermal hazards

: Not applicable.

**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.

# SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid. Colour : Yellowish Odour : Odourless

**Odour threshold** : Not applicable and/or not determined for the mixture.

рH : 13.2 to 13.6 [Conc. (% w/w): 100%]

Melting point/freezing point

: Not applicable and/or not determined for the mixture. **Initial boiling point and boiling**: Not applicable and/or not determined for the mixture.

range

Flash point : > 100°C

**Evaporation rate** : Not applicable and/or not determined for the mixture. Flammability (solid, gas) Not applicable and/or not determined for the mixture. **Burning time** : Not applicable and/or not determined for the mixture. **Burning rate** : Not applicable and/or not determined for the mixture.

Upper/lower flammability or

explosive limits

: Not applicable and/or not determined for the mixture.

Vapour pressure : Not applicable and/or not determined for the mixture. Vapour density : Not applicable and/or not determined for the mixture.

Relative density : 1.306 to 1.346

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# **SECTION 9: Physical and chemical properties**

Solubility(ies)

: Easily soluble in the following materials: cold water and hot water.

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.Not applicable and/or not determined for the mixture.

Decomposition temperature Viscosity

: Not applicable and/or not determined for the mixture.

**Explosive properties** 

: Not applicable.

**Oxidising properties** 

: None.

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No spe

: 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 hazardous reactions

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

10.4 Conditions to avoid

: No specific data.

10.5 Incompatible materials

: Highly reactive or incompatible with the following materials: acids.

Slightly reactive or incompatible with the following materials: organic materials and

metals.

Non-reactive or compatible with the following materials: alkalis and moisture.

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Acute toxicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

**Acute toxicity estimates** 

Not determined for the mixture.

Irritation/Corrosion

**Conclusion/Summary** 

: No known significant effects or critical hazards.

<u>Sensitiser</u>

Conclusion/Summary

: No known significant effects or critical hazards.

**Mutagenicity** 

Conclusion/Summary

: No known significant effects or critical hazards.

Carcinogenicity

**Conclusion/Summary** 

: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary

: No known significant effects or critical hazards.

**Teratogenicity** 

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## **SECTION 11: Toxicological information**

**Conclusion/Summary**: No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

#### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

#### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely

routes of exposure

: No known significant effects or critical hazards.

Potential acute health effects

**Inhalation** : May give off gas, vapour or dust that is very irritating or corrosive to the respiratory

system.

**Ingestion**: May cause burns to mouth, throat and stomach.

**Skin contact** : Causes severe burns.

**Eye contact** : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : No specific data.

**Ingestion**: Adverse symptoms may include the following:

stomach pains

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: No known significant effects or critical hazards.

Detential deleve

**Potential delayed effects**: No known significant effects or critical hazards.

Long term exposure

Potential immediate

: No known significant effects or critical hazards.

effects

effects

**Potential delayed effects**: No known significant effects or critical hazards.

Potential chronic health effects

**Conclusion/Summary**: No known significant effects or critical hazards.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Other information : No known significant effects or critical hazards.

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium hydroxide	Acute EC50 40 mg/l	Daphnia	48 hours

Conclusion/Summary

: No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

Conclusion/Summary

: Mainly inorganic product. Biodegradation information refers only to organic

component(s).

#### 12.3 Bioaccumulative potential

**Conclusion/Summary** 

: Not determined for the mixture.

12.4 Mobility in soil

Soil/water partition

: Not determined for the mixture.

coefficient (Koc)

**Mobility** 

: Not determined for the mixture.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

12.6 Other adverse effects

: No known significant effects or critical hazards.

# **SECTION 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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts 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 : Yes. European waste catalogue (EWC)

Waste code	Waste designation
20 01 15*	alkalines

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled.

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.

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# **SECTION 14: Transport information**

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN1824	UN1824	UN1824	UN1824
14.2 UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	None.	None.	None.	None.

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

: Not applicable.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### Other EU regulations

Ingredient declaration according to detergent regulation 648/2004/EC:

<5% polycarboxylates

#### **National regulations**

Germany

Hazard class for water

: 1 Appendix No. 4

(WGK)

15.2 Chemical Safety Assessment

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

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#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN/ADNR = European Provisions concerning the International Carriage of

Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

DPD = Dangerous Preparations Directive [1999/45/EC]

EC = European Commission

EUH statement = CLP-specific Hazard statement IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OEL = Occupational Exposure Limit

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

REACH # = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1A, H314	On basis of test data

Full text of abbreviated H

statements

: H314

Causes severe skin burns and eye damage.

Full text of classifications

[CLP/GHS]

: Skin Corr. 1A, H314

SKIN CORROSION/IRRITATION - Category 1A

Full text of abbreviated R

phrases

: R35- Causes severe burns.

Full text of classifications

Date of previous issue

[DSD/DPD]

: C - Corrosive

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revision

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: No previous validation

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Notice to reader

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