

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 21 February 2012 Revision date: 23 March 2015 : Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : Alkadex Forte

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

1.2.1. Relevant identified uses

Use of the substance/mixture : The cleaning and disinfection of food production equipment

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GEA Farm Technologies (UK) Ltd

Wylye Works, Watery Lane, Bishopstrow, Warminster, Wiltshire BA12 9HT England

T: +44 (0) 1985 216 444 F: +44 (0) 1985 216 692

E-mail: info.agroserve@geagroup.com

1.4. Emergency telephone number

Emergency number : +44 (0) 870 190 6777 (24 hours, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Met. Corr. 1 H290 Skin Corr. 1A H314

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R35

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : Sodium hydroxide

Hazard statements (CLP) : H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP)

: P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): 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 doctor

P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Other hazards not contributing to the

: Inhalation of vapours may cause respiratory irritation.

classification

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Sodium hydroxide	(CAS No) 1310-73-2 (EC No.) 215-185-5 (EC index No.) 011-002-00-6	20 - 30	C; R35
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydroxide	(CAS No) 1310-73-2 (EC No.) 215-185-5 (EC index No.) 011-002-00-6	20 - 30	Met. Corr. 1, H290 Skin Corr. 1A, H314

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is

difficult, trained personnel should give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate

medical attention.

First-aid measures after skin contact : Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or

shower. Obtain immediate medical attention.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. Do not give an

unconscious person anything to drink. Obtain immediate medical attention.

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

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : Causes burns.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Corrosive. Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

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

Treat symptomatically. Respiratory symptoms, including pulmonary oedema, may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Hazardous decomposition products in case of : None known.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing

apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ensure adequate ventilation.

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For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.

: Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. **Emergency procedures**

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up

: Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wash spill area with soapy water. Washings must be prevented from entering surface water drains.

Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eves and clothing.

Hygiene measures

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in the original container. Store in corrosive resistant container with a resistant inner liner. Store away from. Incompatible materials. Direct sunlight. Protect against frost.

Incompatible materials : Acids. Metals.

7.3. Specific end use(s)

The cleaning and disinfection of food production equipment.

SECTION 8: Exposure controls/personal protection

Control parameters

Sodium hydroxide (1310-73-2)		
United Kingdom	Local name	Sodium hydroxide
United Kingdom	WEL STEL (mg/m³)	2 mg/m³

Exposure controls

Appropriate engineering controls

: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

: Avoid all unnecessary exposure.

Hand protection

Nitrile rubber gloves. Standard EN 374 - Protective gloves against chemicals. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection

Chemical goggles or face shield. Standard EN 166 - Personal eye-protection.

Skin and body protection

PVC apron covering the tops of the boots. Rubber boots.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Standard EN 149 -

Respiratory protective devices.

Thermal hazard protection

Not required for normal conditions of use.

Environmental exposure controls

Avoid release to the environment.

Other information

Odour threshold

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and

safety procedures

: No data available

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear, Yellow, brown. Odour : Slight. Sweet.

12.8 - 14

No data available Relative evaporation rate (butylacetate=1) Melting point : No data available

: ≈0°C Freezing point

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: > 100 °C Boiling point : Not flammable Flash point : No data available Auto-ignition temperature Decomposition temperature No data available : Non flammable. Flammability (solid, gas) : No data available Vapour pressure Relative vapour density at 20 °C : No data available 1.3 - 1.36 (Water = 1) Relative density Solubility : Miscible with water. Log Pow : No data available : No data available Log Kow Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : Not explosive. : No data available Oxidising properties **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with acids. Reacts with aluminium and zinc liberating extremely flammable hydrogen gas. Attacks copper, aluminium, zinc, magnesium, tin, and their alloys.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with aluminium and zinc liberating extremely flammable hydrogen gas.

10.4. Conditions to avoid

Direct sunlight. Protect against frost.

10.5. Incompatible materials

Acids. Metals.

10.6. Hazardous decomposition products

Hydrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Based on available data, the classification criteria are not met

Sodium hydroxide (1310-73-2)		
LD50 dermal rabbit	1350 mg/kg	
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 12.8 - 14	
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 12.8 - 14	
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met	
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met	

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Specific target organ toxicity (repeated : Not classified

exposure)

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

Causes severe skin burns and eye damage. Inhalation of vapours may cause respiratory

irritation. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Not classified, however the product is likely to be hazardous to aquatic life due to extreme pH.

Sodium hydroxide (1310-73-2)

EC50 Daphnia 40.4 mg/l 48 h (Daphnia magna)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Alkadex	Forte	

Bioaccumulative potential No bioaccumulation.

12.4. Mobility in soil

Alkadex Forte

Ecology - soil Miscible with water.

12.5. Results of PBT and vPvB assessment

Alkadex Forte

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should

be taken to an approved waste handling site for recycling or disposal.

Additional information : Handle empty containers with care.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1824 UN-No. (IATA) : 1824 UN-No. (IMDG) : 1824

14.2. UN proper shipping name

Proper Shipping Name (ADR/RID) : SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IATA) : SODIUM HYDROXIDE SOLUTION
Proper Shipping Name (IMDG) : SODIUM HYDROXIDE SOLUTION

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Transport document description (ADR) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

14.3. Transport hazard class(es)

 Class (ADR/RID)
 : 8

 Class (IATA)
 : 8

 Class (IMDG)
 : 8

 Hazard labels (ADR/RID)
 : 8



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Hazard labels (IATA) : 8

Agroserve Supporting Dairy FARMERS SINCE 1971



Danger labels (IMDG) :



14.4. Packing group

Packing group (ADR/RID) : II
Packing group (IATA) : II
Packing group (IMDG) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : No special precautions required.

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or	
categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6,	
3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than	
narcotic effects, 3.9 and 3.10	

Alkadex Forte

Contains no substance on the REACH candidate list

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SECTION 2. SECTION 3. SECTION 11. SECTION 12. SECTION 14.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None

Full text of R-, H- and EUH-phrases:

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Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
R35	Causes severe burns

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C Corrosive

NCEC SDS EU (REACH ANNEX II)

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.

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