

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

KEYSTONE HAND FOAM BAC

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

1.1 Product identifier

Product name : KEYSTONE HAND FOAM BAC

Product code : 123068E

Use of the

Substance/Mixture

Hand Sanitizer

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 : Professional Hand Cleaner /skin desinfectants

Recommended restrictions

on use

: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.

PO Box 11; Winnington Avenue

Northwich, Cheshire, United Kingdom CW8 4DX

+ 44 (0)1606 74488 ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone : +441618841235

number +32-(0)3-575-5555 Trans-European

Poison Information Centre

telephone number

: For medical professionals only: 0344 892 0111

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Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319 Chronic aquatic toxicity, Category 3 H412

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P273 Avoid release to the environment.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

2.3 Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.	REGULATION (EC) No 1272/2008	: [%]
	REACH No.		
Chlorhexidine gluconate	18472-51-0	Serious eye damage Category 1; H318	>= 1 - < 2.5
	242-354-0	Acute aquatic toxicity Category 1; H400	
	01-2119946568-22	Chronic aquatic toxicity Category 1; H410	
		M = 10	
		M(Chronic) = 1	
Amides, C12-18 (even	1471314-81-4	Acute toxicity Category 4; H302	>= 0.25 - < 1
numbered), N-[3-	939-581-9	Skin irritation Category 2; H315	
(dimethylamino) propyl],	01-2119978229-22	Serious eye damage Category 1; H318	
N'-oxides		Acute aquatic toxicity Category 1; H400	
		Chronic aquatic toxicity Category 3; H412	
alcohols, c12-14,	68439-50-9	Acute aquatic toxicity Category 1; H400	>= 0.25 - < 1
ethoxylated	500-213-3	Serious eye damage/eye irritation	
	01-2119487984-16	Category 1; H318	
		Skin corrosion/irritation Category 2; H315	
		M = 1	

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

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for

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at least 15 minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical attention.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

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

: Depending on combustion properties, decomposition products

may include following materials:

Carbon oxides

nitrogen oxides (NOx) Hydrogen chloride

5.3 Advice for firefighters

for firefighters

Special protective equipment: 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

personnel

: 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.

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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

Methods for 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a

waterway.

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 get in eyes.

: No specific measures identified. Hygiene measures

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Protect from frost, heat and sunlight. Store at room temperature in

the original container. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 5 °C to 25 °C

7.3 Specific end uses

Specific use(s) : Professional Hand Cleaner /skin desinfectants

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

Amides, C12-18 (even End Use: Workers numbered), N-[3-**Exposure routes: Inhalation** (dimethylamino) propyl], N'-Potential health effects: Long-term systemic effects oxides Value: 10.58 mg/m3 End Use: Workers Exposure routes: Dermal Potential health effects: Long-term systemic effects

15 mg/kg

End Use: Consumer use

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Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 2.61 mg/m3

End Use: Consumer use Exposure routes: Dermal

Potential health effects: Long-term systemic effects

7.5 mg/kg

End Use: Consumer use Exposure routes: Oral

Potential health effects: Long-term systemic effects

0.75 mg/kg

PNEC

Amides, C12-18 (even numbered), N-[3-

(dimethylamino) propyl], N'-

oxides

: Fresh water

Value: 0.00606 mg/l

Intermittent use/release Value: 0.0068 mg/l

Marine water

Value: 0.000606 mg/l

Sewage treatment plant

Value: 3.2 mg/l

Fresh water sediment Value: 0.15 mg/kg

Marine sediment Value: 0.015 mg/kg

Soil

Value: 0.026 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Individual protection measures

Hygiene measures : No specific measures identified.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection

(EN 14605)

: No special protective equipment required.

Respiratory protection (EN : None required if airborne concentrations are maintained below the

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143, 14387) exposure limit listed in Exposure Limit Information. Use certified

respiratory protection equipment meeting EU

requirements(89/656/EEC, (EU) 2016/425), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods

or procedures of work organization.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : clear, colourless

Odour : slight

pH : 4.8 - 5.3, 100 % 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 : Not applicable and/or not determined for the mixture

boiling range

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 : 1.0 - 1.02
Water solubility : soluble

Solubility in other solvents : Not applicable and/or not determined for the mixture Partition coefficient: n- : Not applicable and/or not determined for the mixture

octanol/water

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

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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

None known.

10.6 Hazardous decomposition products

In the event of fire, see Section 5

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

International Physics County I

exposure

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

Product

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.

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STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Chlorhexidine gluconate LD50 rat: 2,135 mg/kg

Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl],

N'-oxides LD50 rat: 1,000 mg/kg

Components

Acute inhalation toxicity : Chlorhexidine gluconate 4 h LC50 rat: 0.365 mg/l

Test atmosphere: dust/mist

Components

Acute dermal toxicity : Chlorhexidine gluconate LD50 rabbit: > 2,000 mg/kg

Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl],

N'-oxides LD50 rat: > 2,174 mg/kg

alcohols, c12-14, ethoxylated LD50: > 2,000 mg/kg

Potential Health Effects

Eyes : Causes serious eye irritation.

Skin : Do not use in the perineal or eyelid areas. Do not instill in the

middle ear – may cause deafness if ear drum is perforated.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Environmental Effects : Harmful to aquatic life with long lasting effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

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aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl],

N'-oxides96 h LC50 Oncorhynchus mykiss (rainbow trout): 0.68

mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: Chlorhexidine gluconate48 h EC50: 0.06 mg/l

Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides48 h EC50 Daphnia magna (Water flea): 0.96 mg/l

Components

Toxicity to algae : Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl],

N'-oxides72 h EC50 Pseudokirchneriella subcapitata (algae):

0.705 mg/l

alcohols, c12-14, ethoxylated72 h EC50: 0.8 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 : Chlorhexidine gluconateResult: Readily biodegradable.

Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl],

N'-oxidesResult: Readily biodegradable.

alcohols, c12-14, ethoxylatedResult: Readily biodegradable.

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

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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 : Do not contaminate storm water drains, natural waterways or soil

with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of contents/container in accordance 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.

Guidance for Waste Code

selection

: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC)

and local 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)

14.1 UN number : Not dangerous goods14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group14.5 Environmental hazards14.6 Special precautions forNot dangerous goodsNot dangerous goods

user

Air transport (IATA)

14.1 UN number : Not dangerous goods14.2 UN proper shipping : Not dangerous goods

name

14.3 Transport hazard : Not dangerous goods

class(es)

14.4 Packing group14.5 Environmental hazards14.6 Special precautions forNot dangerous goodsNot dangerous goods

user

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Sea transport (IMDG/IMO)

14.1 UN number : Not dangerous goods 14.2 UN proper shipping : Not dangerous goods

14.3 Transport hazard

: Not dangerous goods

class(es)

14.4 Packing group : Not dangerous goods : Not dangerous goods 14.5 Environmental hazards 14.6 Special precautions for : Not dangerous goods

user

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

Code

: Not dangerous goods

Section: 15. REGULATORY INFORMATION

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

: less than 5 %: Amphoteric surfactants, Non-ionic surfactants according to Detergents

Regulation EC 648/2004 Contains: Disinfectants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of majoraccident hazards involving dangerous substances.

Not applicable.

Candidate List of Substances : Not applicable. of Very High Concern for

Authorisation

National Regulations

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

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)

Regulations.

The Control of Substances Hazardous to Health Regulations.

Health and Safety at Work Act.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out on the product.

Section: 16. OTHER INFORMATION

Procedure used to derive the classification according to REGULATION (EC) No 1272/2008

Classification	Justification
Eye irritation 2, H319	Calculation method
Chronic aquatic toxicity 3, H412	Calculation method

Full text of H-Statements

H302 Harmful if swallowed.

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

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.

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Annex: Exposure Scenarios

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