SAFETY DATA SHEET
ALKEM

Date: Feb 2012
Revision:

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ALKEM **Product code:** B109/B110

1.2 Relevant identified uses of the substance/mixture and uses advised against
Acidic cleaner for masonry and external hard surfaces.

1.3 Details of stockist
SUPPLIER: ROWEBB LTD
33-53 CHARLES STREET
GLASGOW, G21 2PR
TEL: 0141 548 6010 FAX: 0141 553 1039
EMAIL: rowebb@rowebb.com

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CHIP Regs.: Not classified as hazardous under CHIP

Classification under CLP Regs.: N/A

2.2 Label elements
Label elements under CHIP: Not classified as hazardous under CHIP.

Hazard symbols: None
Risk Phrases: None.
Safety phrases: S29: Do not empty into drains. S35: This material and its container should be disposed of in a safe way.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CHIP	Classification CLP	Concentration %w/w
Citric acid				
77-92-9		Xi, R36		10-20
Acetic acid				
64-19-7	200-580-7	C, R34	H314	1-5
Didecyldimethyl ammonium chloride				
7173-51-5	230-525-2	C, R34; R22, N, R50		1-5

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give milk or water to drink and seek immediate medical attention.

Inhalation: Remove from exposure to fresh air. Seek medical attention if symptoms persist.

4.2 Most important symptoms and effects both acute and delayed

No further relevant information

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

Use self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See section 8 for advice on protective equipment.

6.2 Environmental precautions

Do not allow spillage to enter watercourses.

6.3 Methods and material for containment and cleaning up
Spillages should be contained and absorbed in inert material. Transfer to plastic container for disposal.
6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling
Avoid eye contact.
7.2 Conditions for safe storage, including any incompatibilities
Store in original container, tightly closed. Do not mix with other chemicals.
7.3 Specific end use
Cleaner for all washroom surfaces.

8. Exposure controls/personal protection

8.1 Control parameters
Substances assigned Workplace Exposure Limits

Name	type	Long term	Short term

None
8.2 Exposure controls
Wear rubber gloves if skin contact is unavoidable. Wear eye protection to prevent liquid splashes if necessary. Avoid inhalation of spray mist.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: Clear liquid, colourless.
Odour: slight, sour
Density at 20°C: 1.05kg/ltr
Solubility: Completely soluble in water.
pH:< 2
Flash point: N/A
Boiling point: >100°C
Oxidising: No
9.2 Other information

10.Stability and reactivity

10.1 Reactivity
Not reactive under normal conditions. See sect. 10.3
10.2 Chemical stability
Stable under normal conditions
10.3 Possibility of hazardous reactions
Acidic product. Contact with products containing bleach can cause a reaction with evolution of chlorine gas.
10.4 Conditions to avoid
No special measures.

10.5 Incompatible materials
Strong alkalis and oxidising agents.
10.6 Hazardous decomposition products
Decomposition at high temperatures will produce oxides of carbon and nitrogen.

11.Toxicological information

11.1 Information on toxicological effects.
Citric acid LD_{50} 11750mg/kg (oral, rat).
Acetic acid LD_{50} 3310mg/kg (oral, rat)
Didecyldimethyl ammonium chloride LD_{50} 238mg/kg (oral, rat)
No significant health hazard when used as intended. Effects of overexposure:-
Eyes: Irritation, redness and watering.
Skin:Irritation, redness.
Ingestion:Sore throat and mouth , abdominal pain, vomiting.
Inhalation (mist): Coughing, shortness of breath, irritation to membranes of nose and throat.

12.Ecological information

12.1 Toxicity
Harmful to aquatic organisms.
Aquatic toxicity: Citric acid LC_{50} 440 – 706mg/l (goldfish)
Acetic acid LC_{50} 75mg/l (fish, 96hr)
Didecyldimethyl ammonium chloride LC_{50} 0.19mg/l (fathead minnow, 96hr)
12.2 Persistence and degradability
All ingredients are biodegradable.
12.3 Bioaccumlative potential
Not expected to bioaccumulate.
12.4 Mobility in soil
All ingredients are water soluble.
12.5 Results of PBT and vPvB assessment
There are no ingredients identified as PBT or vPvB substances.
12.6 Other adverse effects
No further relevant information.

13.Disposal considerations

13.1 Waste treatment methods
Comply with local regulations. Do not allow concentrate to enter water systems.
Used packaging may be suitable for recycling after thorough washing with water.

14.Transport information

14.1 UN Number
Not classified as hazardous for transport.
14.2 UN Proper shipping name
None.
14.3 Transport hazard class(es)
Not classified
14.4 Packing group
Not classified
14.5 Environmental hazards
Not classified
14.6 Special precautions for user

15.Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture
None.
15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for this product.

16.Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010
The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture.
The full text of the R phrases referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture

R22: Harmful if swallowed.
R34: Corrosive, causes burns.
R36: Irritating to eyes.
R50: Very toxic to aquatic organisms

Abbreviations and acronyms

ADR	**European Agreement concerning the International Carriage of Goods by Road**
CAS	**Chemical Abstracts Service**
CHIP	**Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45.EC and 67/548/EC**
CLP	**Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008**
CMR	**Carcinogenic-mutagenic-toxic for reproduction**
EINECS	**European Inventory of Existing Commercial Chemical Substances**
GHS	**Globally Harmonised System of Classification and Labelling of Chemicals**
IATA	**International Air Transport Association**
IMDG	**International Maritime Dangerous Goods Code**
LC50	**Lethal Concentration, 50%**
LD50	**Lethal Dose, 50%**
OEL	**Occupational Exposure Limit**
PBT	**Persistent, Bioaccumulative, Toxic**
vPvB	**very Persistent, very Bioaccumulative**
RID	**Convention concerning International Carriage by Rail**
WEL	**Workplace Exposure Limit**
VOC	**Volatile Organic Compound**