

# Material Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

### 1.1 Product Identifier

**Product Name** CleanKil Alpha  
**MSDS Code** 008497

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

**Identified uses** Anti-bacterial hard surface cleaner  
**Uses advised against** This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

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

**Supplier:** Fleming Technical Limited  
Brunel Road  
Croft Business Park  
Bromborough CH62 3NY  
www.fleming-tech.com  
www.spillhound.com  
Tel +44(0)151 343 1800

**Contact person:** Mr G. Fleming

### 1.4 Emergency telephone number

**Emergency telephone** +44(0) 151 343 1800 Mon-Fri 09.00 - 17.00. If you urgently need medical help or advice but it's not a life-threatening situation, call the 24-hour NHS 111 service to speak to an NHS adviser. Simply call 111 free from a landline or mobile.

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification

##### Physical hazards

Not classified.

##### Health hazards

Eye Irrit 2A - H319

Skin Irrit 2 - H315

##### Environmental hazards

Not classified.

### 2.2 Label elements

#### Pictogram



**Signal word** Warning

#### Hazard statements

H315 + H320: Causes skin and eye irritation R36/38

#### Precautionary statements

P260 : Do not breathe spray

P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### Supplementary precautionary statements

### 2.3 Other hazards

This product contains no substances classified as PBT or vPvB.

### 3. Composition/Information on ingredients

#### 3.2 Mixtures

<b>Tetrasodium ethylenediamine tetraacetate</b>	<b>1-5 %</b>
<b>CAS number:</b> 64-2-8	<b>EC number:</b> 200-573-9
<b>Classification</b>	
Eye Dam 1 - H318 Acute Tox 4 - H302 Acute Tox 4 - H332	H318: Causes serious eye damage R41 H302: Harmful if swallowed R22 H332: Harmful if inhaled R20
<b>Alkyl[(ethylphenyl)methyl]dimethylammonium chloride</b>	
<b>0-1 %</b>	
<b>CAS number:</b> 85409-23-0	<b>EC number:</b> 287-090-7
<b>Classification</b>	
Skin Corr 1B - H314 Acute Tox 4 - H302 H410	H314: Causes severe skin burns and eye damage R35 H302: Harmful if swallowed R22 H410: Very toxic to aquatic life with long lasting effects R50/53
<b>Sodium Hydroxide</b>	
<b>1-5 %</b>	
<b>CAS number:</b> 1310-73-2	<b>EC number:</b> 215-185-5
<b>Classification</b>	
Skin Corr 1B - H314	H314: Causes severe skin burns and eye damage R35

## 4. First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation - advice refers to inhalation of spray mist

Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

#### Ingestion

Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

#### Skin

Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Use suitable lotion to moisturise skin. Get medical attention if any discomfort continues.

#### Eyes

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

#### General Information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation - information refers to inhalation of spray mist

Coughing, chest tightness, feeling of chest pressure.

#### Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

#### Skin

Prolonged contact may cause redness, irritation and dry skin.

#### Eyes

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

#### Notes for the doctor

No specific recommendations. Treatment should be symptomatic. If in doubt, get medical attention promptly.

## 5. Firefighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

This product is not flammable. Fire extinguishing media should be selected according to the nature of surrounding materials.

### 5.2 Special hazards arising from the substance or mixture

#### Specific hazards

Thermal decomposition or combustion may liberate toxic gases or vapours.

#### Hazardous combustion products

Vapours may include oxides of the following : Carbon. Hydrogen. Nitrogen.

### 5.3 Advice for firefighters

#### Protective actions during firefighting

Stay up-wind to avoid breathing fumes or vapours. Keep run-off water out of sewers and watercourses. If there is risk of water pollution, notify appropriate authorities.

#### Special protective equipment for firefighters

Use self-contained breathing apparatus, gloves and protective goggles. Use full protective clothing appropriate for surrounding materials.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Protective equipment required: protective gloves, goggles, clothing and footwear. See section 8.

### 6.2 Environmental precautions

Do not discharge into water courses. Place container with damaged side up. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY notified to the Environmental Agency or other appropriate regulatory body.

### 6.3 Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers.

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush remaining spilled material to foul sewer if local regulations permit. For waste disposal, see section 13.

### 6.4 Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

Read and follow manufacturer's recommendations. Observe good chemical hygiene and handling practices. Refer to section 6.1 for personal protective equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a cool, dry place.

### 7.3 Specific end use(s)

Please see section 1.2

## 8. Exposure Controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Statutory and derived exposure data for Tetrasodium ethylenediamine tetraacetate

Workplace Exposure Limits (WEL)				Derived and predicted exposure parameters			
TWA - 8hr		STEL - 15 mins		DNEL (mg/m3)		PNEC	
ppm	mg/m3	ppm	mg/m3	Inhalation	Short Term	STP	mg/l
				Inhalation	Long Term	Fresh water	

Statutory and derived exposure data for Alkyl[(ethylphenyl)methyl]dimethylammonium chloride

Workplace Exposure Limits (WEL)				Derived and predicted exposure parameters			
TWA - 8hr		STEL - 15 mins		DNEL - No data available		PNEC - No data available	
ppm	mg/m3	ppm	mg/m3				
400	999	500	1250				

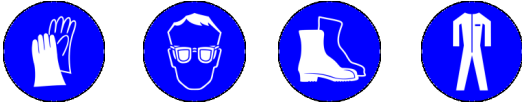
Statutory and derived exposure data for Sodium Hydroxide

Workplace Exposure Limits (WEL)				Derived and predicted exposure parameters			
TWA - 8hr		STEL - 15 mins		DNEL (mg/m3)		PNEC - No data available	
ppm	mg/m3	ppm	mg/m3	Inhalation	Short Term		
-	-	-	2	Inhalation	Long Term		

## 8. Exposure Controls/personal protection - continued

### 8.2 Exposure controls

#### Protective equipment



#### Appropriate engineering controls

No specific ventilation requirements. If this product is used in such a way as to generate spray mist, additional ventilation may be required.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles conforming to ANSI Z87.1.

#### Hand protection

Use protective gloves, complying with an approved standard (EN374), made of the following material: PVC or Nitrile.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Frequent change is advisable.

#### Other skin and body protection

Wear appropriate protective clothing to prevent any possibility of skin contact. Provide eyewash station.

#### Hygiene measures

Provide eye wash station and suitable hand cleaning/hand care facilities. When using do not eat, drink or smoke. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

#### Respiratory protection

Respiratory protection may be required if the usage method generates excessive levels of mist/dust. If necessary, wear a mask fitted with a cartridge P2/P3 suitable for mist/dust.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b> Blue Liquid	<b>pH (Concentrate)</b> 13	<b>pH (10%)</b> 12
<b>Odour</b> Faint	<b>Decomposition temperature (°C)</b> Not available	
<b>Solubility - water</b> Soluble in all proportions	<b>Odour threshold - lower</b> Not available	
<b>Solubility - other</b> n/a	<b>Odour threshold - upper</b> Not available	
<b>Boiling point</b> ~ 100°C	<b>Flash point (°C)</b> Not applicable	
<b>Freezing point</b> ~ 0°C	<b>Auto ignition temperature (°C)</b> Not available	
<b>Relative density (20°C)</b> ~ 1.03	<b>Flammability limit - lower (%)</b> Not available	
<b>Vapour density (air = 1)</b> Not available	<b>Flammability limit - upper (%)</b> Not available	
<b>Vapour pressure</b> Not available	<b>Partition coefficient (N-octanol/water)</b> Not available	
<b>Viscosity</b> Not Available	<b>Oxidising properties</b> Does not meet the criteria for oxidising	
<b>Evaporation rate (BuAc = 1)</b> Not available	<b>Comments</b> Information declared as 'Not available' or 'Not applicable' is not considered to be relevant to the implementation of the proper control measures	

### 9.2 Other information

<b>VOC (grams/litre)</b> 0	<b>This is a zero VOC product.</b>
-------------------------------	------------------------------------

## 10. Stability and reactivity

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical Stability

Stable under normal temperature conditions.

### 10.3 Possibility of hazardous reactions

Reaction with acids will generate heat.

### 10.4 Conditions to avoid

Avoid excessive heat for prolonged periods of time.

### 10.5 Incompatible materials

Strong oxidisers. Acids (generates heat).

### 10.6 Hazardous decomposition products

Product does not decompose under normal conditions.



## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicological effects

No data recorded for mixture

#### Acute toxicity - oral (Calculated from raw material data. This product is not tested on animals)

##### ATE oral (mg/kg)

10448

#### Skin corrosion/irritation

##### Human skin model test

Scientifically unjustified

#### Extreme pH

Based on in Vitro calculation from pH and Alkali Reserve. Irritating.

#### General

This product is an alkaline irritant. It is not volatile but spray mists can pose an additional hazard.

#### Inhalation

Spray mist may cause respiratory system irritation

#### Ingestion

May cause discomfort and/or stomach upset if swallowed.

#### Skin contact

Irritating to skin.

#### Eye contact

Irritating to eyes.

#### Route of entry

Inhalation (spray mist). Ingestion. Skin. Eyes.

#### Medical symptoms

Symptoms following overexposure may include the following: Skin irritation. Respiratory system irritation . Irritation of eyes and mucous membranes.

#### Medical considerations

People with skin disorders and/or allergies should take extra care when using this product.

#### Toxicological information on ingredients

Tetrasodium ethylenediamine tetraacetate	LD50	oral	rat	3030	mg/kg
	LD50	ipr	mouse	40	mg/kg
Alkyl[(ethylphenyl)methyl]dimethylammonium chloride	LD50	oral	rat	1962	mg/kg
Sodium Hydroxide	LD50	oral	rat	273	mg/kg

## 12. Ecological Information

The product is not expected to be hazardous to the environment.

The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

The product does not contain organically bound halogen.

The product is not expected to be hazardous to wastewater treatment processes. The product does not contain organic complexing agents with a DOC level of degradation of < 80% after 28 days.

### 12.1 Toxicity

#### Acute aquatic toxicity

Details shown in section 08, when applicable.

### 12.2 Persistence and degradability

This is a zero VOC product.

The surfactants contained in this product comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

The product is biodegradable but it must not be discharged into drains without permission from the relevant authorities.

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate

### 12.4 Mobility in soil

The product is soluble in water.

### 12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### 12.6 Other adverse effects

Not Determined

## 13. Disposal Considerations

### 13.1 Waste treatment methods

#### General Information

When handling waste, the safety precautions applying to handling of the product should be considered. The packaging must be empty (drop-free when inverted).

#### Disposal methods

Packaging should be reused, recycled or laundered via a licensed operator wherever possible.

Avoid the spillage or runoff entering watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Discharge of small quantities to the sewer with plenty of water may be permitted.

The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

## 14. Transport Information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1 UN Number

ADR/RID :

IMDG :

ICAO :

### 14.2 UN proper shipping name

ADR/RID :

IMDG :

ICAO :

ADN :

### 14.3 Transport hazard class(es)

ADR/RID :

IMDG :

ICAO :

### Transport labels

None required.

### 14.4 Packing group

ADR/RID :

IMDG :

ICAO :

### 14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant

No

### 14.6 Special precautions for user

IMDG Code segregation group Not applicable.

EmS

Emergency Action Code

Hazard Identification  
Number (ADR/RID)

Tunnel restriction code

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code : Not applicable.

## 15. Regulatory Information

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

#### National Regulations

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

#### EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

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 (as amended).

#### Guidance Notes

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

#### Health and environmental listings

Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).

#### Water hazard classification

WGK 1

### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

## 16. Other Information

### General Information

For use by trained personnel only. Read the product label and follow instructions carefully. This product should only be used on the surfaces described on the product. Do not use or rinse this product in such a way as to generate excessive product mist, as this can cause unnecessary inhalation hazard.

When using this product, ensure that other unprotected personnel, or members of the public, are not exposed. Where necessary, unprotected persons should be excluded from any area where the product is being used.

All users should have access to, and be familiar with the contents of, this data sheet.

If this product is decanted into other containers, ensure that they are suitable, clean and correctly labelled.

Product spills may be very slippery - ensure that spillages are cleaned up immediately and that adequate warnings are given to other personnel.

This product should NOT be used in the home.

This product should never be mixed with any other.

#### Issued by

Prepared by :  
Fleming Technical Limited  
Brunel Road  
Croft Business Park  
Bromborough  
CH62 3NY  
Great Britain  
www.fleming-tech.com  
+44 (0) 151 343 1800

#### Supersedes date

05/01/2015

#### SDS status

Approved.

### Disclaimer

This 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.

Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated.

However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.