SAFETY DATA SHEET
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

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

1.1. Product identifier
Product name  Jangro - Enviro Concentrate - K4 KITCHEN SANITISER
Product number  A133 JA
Internal identification  BB470-1  PCS No. 99368

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses  Super concentrated sanitisier.

1.3. Details of the supplier of the safety data sheet
Supplier  Jangro Limited
Jangro House
Worsley Road
Farnworth
Bolton. UK
BL4 9LU
Tel: 01204 795 955
Fax: 01204 579 499
enquiries@jangrohq.net

1.4. Emergency telephone number
Emergency telephone  01772 318 818 - 8.30am to 4.45pm - Mon to Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards  Not Classified
Health hazards  Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards  Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

2.2. Label elements
Pictogram

Signal word  Danger
Hazard statements  H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe mist.
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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/ attention.
P501 Dispose of contents/ container in accordance with local regulations.

Contains

ALKYL (C12-16) DIMETHYL BENZYL AMMONIUM CHLORIDE

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>ALKYL (C12-16) DIMETHYL BENZYL AMMONIUM CHLORIDE</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68424-85-1</td>
<td>EC number: 270-325-2</td>
</tr>
<tr>
<td>M factor (Acute) = 10</td>
<td>M factor (Chronic) = 1</td>
</tr>
</tbody>
</table>

 Classification
Acute Tox. 4 - H302
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

<table>
<thead>
<tr>
<th>C12-15 ALCOHOL ETHOXYLATE (7EO)</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 68131-39-5</td>
<td></td>
</tr>
<tr>
<td>M factor (Acute) = 1</td>
<td></td>
</tr>
</tbody>
</table>

 Classification
Acute Tox. 4 - H302
Eye Dam. 1 - H318
Aquatic Acute 1 - H400

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Unlikely route of exposure as the product does not contain volatile substances. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion
Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.

Skin contact
Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention immediately.

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

Irritation of nose, throat and airway.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.

Eye contact

Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.

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

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing, gloves, eye and face protection. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Wear protective clothing, gloves, eye and face protection.

7.2. Conditions for safe storage, including any incompatibilities
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

Storage precautions
Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

Usage description
See Product Information Sheet & Label for detailed use of this product.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Ingredient comments
No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Not relevant.

Eye/face protection
The following protection should be worn: Chemical splash goggles or face shield.

Hand protection
Wear protective gloves. (Household rubber gloves.)

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection
Respiratory protection not required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Clear. Purple.

Odour
Unperfumed.

pH
pH (concentrated solution): 13.30

Melting point
-1°C

Initial boiling point and range
100°C @ 760 mm Hg

Flash point
Boils without flashing.

Relative density
1.060 @ 20°C

Solubility(ies)
Soluble in water.

9.2. Other information

Other information
None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
Reactions with the following materials may generate heat: Strong acids.

10.2. Chemical stability
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

Stability

No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
See sections 10.1, 10.4 & 10.5

10.4. Conditions to avoid

Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid
Strong acids. Aluminium, Tin, Zinc and their alloys.

10.6. Hazardous decomposition products

Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects
We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Acute toxicity - oral
Notes (oral LD₅₀)
Based on available data the classification criteria are not met.

ATE oral (mg/kg)
2,292.31

SECTION 12: Ecological Information

Ecotoxicity
Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Another potential hazard is from the alkalinity of the product.

12.1. Toxicity

Toxicity
We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

12.2. Persistence and degradability

Persistence and degradability
The surfactant(s) contained in this product complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility
Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects
Not known.

SECTION 13: Disposal considerations
Jangro - Enviro Concentrate - K4 KITCHEN SANITISER

13.1. Waste treatment methods
Disposal methods
Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal as special waste. Rinse out empty container with water and consign to normal waste.

SECTION 14: Transport information

General
Please note: Product in pack size of 1 Litre or less is classed as a "Limited Quantity" for Transport and so will have the white with black points Transport hazard diamond. Pack size greater than 1 litre will have the Black & White halved diamond Corrosive UN 3267 Transport hazard diamond.

14.1. UN number
UN No. (ADR/RID) 3267
UN No. (IMDG) 3267
UN No. (ICAO) 3267

14.2. UN proper shipping name
Proper shipping name (ADR/RID) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (alkyl dimethyl benzyl ammonium chloride)
Proper shipping name (IMDG) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (alkyl dimethyl benzyl ammonium chloride)
Proper shipping name (ICAO) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (alkyl dimethyl benzyl ammonium chloride)

14.3. Transport hazard class(es)
ADR/RID class Class 8: Corrosive Substances.
ADR/RID label 8
IMDG class Class 8: Corrosive Substances.
ICAO class/division Class 8: Corrosive Substances.

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
EmS F-A, S-B
Tunnel restriction code (E)

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

SECTION 15: Regulatory information

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

EU legislation

The product is as classified under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
ATE: Acute Toxicity Estimate.
GHS: Globally Harmonized System.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Skin Corr. = Skin corrosion

Key literature references and sources for data

Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.

Classification procedures according to Regulation (EC) 1272/2008

Calculation Method.

Revision comments

Addition of Environmental Statement(s) due to change in M-Factor of a Raw Material. & Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16)

Revision date

12/11/2018

Revision

3

SDS status

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this Product see Section 2.

Hazard statements in full

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.