

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.03.2011

Revision: 18.03.2011

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

- **Product identifier**
- **Trade name:** KL EX
- **Relevant identified uses of the substance or mixture and uses advised against**
No relevant identified uses - mixture of substances.
- **Application of the substance / the preparation**
Detergent for windows, stain remover
- **Details of the supplier of the safety data sheet**
Kalogeropoulos Chemicals S.A.
Gounari 35, 185 31
Pireaus, Greece
Tel: +30 2104124518
Fax: +30 2104101607
e-mail: kalochem@otenet.gr
- **Emergency telephone number:**
Poisoning Centre in Athens, Greece
Phone: +30 2107793777

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not applicable.
 - **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
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- **Label elements**
 - **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives.
 - **Safety phrases:**
2 Keep out of the reach of children.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- **Special labelling of certain preparations:**
Biodegradable according to Regulation 648/2004/EC.
Safety data sheet available for professional user on request.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Detergent

- **Components:**

5949-29-1	Citric Acid Monohydrate	10-25%
	 Xi R36/37/38  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

4 First aid measures

- **Description of first aid measures**
- **General information:** Take affected persons out into the fresh air.
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water. If symptoms persist, call a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Rinse mouth. Consult a doctor for safety reasons.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
During fire-fighting, wear suitable respiratory equipment and protective clothes.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
Disposal must be made according to official regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
- **Further information about storage conditions:** Not required.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**
No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required in normal conditions.
- **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:**



Safety glasses

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· **Body protection:**

Use protective suit.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	liquid
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Colour:	transparent
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· Odour:	characteristic
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· Odour threshold:	Not determined.
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· pH-value:	Not determined.
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· **Change in condition**

Melting point/Melting range:	Not applicable.
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Boiling point/Boiling range:	100°C
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· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not applicable.
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· **Ignition temperature:**

Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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· **Explosion limits:**

Lower:	Not determined.
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Upper:	Not determined.
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· Vapour pressure at 20°C:	23 hPa
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· Density:	Not determined.
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· Relative density	Not determined.
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· Vapour density	Not determined.
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· Evaporation rate	Not determined.
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|--|-----------------|
| · Solubility in / Miscibility with water: | Easily soluble. |
| · Segregation coefficient (n-octanol/ water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Stable at environment temperature.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Generally, the product is non hazardous.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
The product doesn't contain any materials that are harmful to the environment.
Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation**
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Disposal must be made according to National Legislation.
- Contact manufacturer for recycling information.
- **Uncleaned packaging:**
 - **Recommendation:**
Disposal must be made according to official regulations.
Packaging may be reused or recycled after cleaning.
 - **Recommended cleansing agents:** No required.

14 Transport information

- **Land transport ADR/RID (cross-border)**
 - **ADR/RID class:** -
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- **Maritime transport IMDG:**
 - **IMDG Class:** -

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- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives.
- **Safety phrases:**
 - 2 Keep out of the reach of children.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **Special labelling of certain preparations:**
Biodegradable according to Regulation of detergents, 648/2004/EC.
Safety data sheet available for professional user on request.
- **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- **Department issuing MSDS:**
SustChem Engineering LTD
144, 3rd Septemvriou, 112 51
Athens, Greece
Tel: +30 210 8252510

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· **Contact:** Kalogeropoulos Chemicals S.A.

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