

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 24.09.2021

Version number 4 (replaces version 3)

Revision: 24.09.2021

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: SOLVEN KL147
UFI: N910-U0MC-H002-RYGY

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

No further relevant information available.

Application of the substance / the mixture: Alkaline general use cleaner for hard dirt**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Kalogeropoulos Chemicals S.A.
D. Gounari 35, 185 31
Pireaus, Greece
Tel: +30 2104124518
Fax: +30 2104101607
e-mail: info@kalochem.gr
website: www.kalochem.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS05

Signal word: Danger**Hazard-determining components of labelling:**

potassium hydroxide

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tetrasodium ethylenediaminetetraacetate

Hazard statements:

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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 [or shower].

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

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Regulation (EC) No 648/2004 on detergents / Labelling for contents

EDTA and salts thereof, phosphates, cationic surfactants

<5%

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.**Ingredients according Regulation (EU) 2020/878:**

| | | |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33-XXXX | potassium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 % | ≥4-<10% |
| CAS: 64-02-8 EINECS: 200-573-9 Index number: 607-428-00-2 Reg.nr.: 01-2119486762-27-XXXX | tetrasodium ethylenediaminetetraacetate STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332 | ≥1-≤2.5% |

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


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| | | |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| CAS: 78330-21-9 | Alcohols, C11-14-iso-, C13-rich, ethoxylated (3-5 EO)  Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | ≥0.25-<1% |
| CAS: 68424-85-1 EINECS: 270-325-2 Reg.nr.: 01-2119970550-39-XXXX | alkyl dimethyl benzyl ammonium chloride  Skin Corr. 1B, H314;  Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Tox. 4, H302 | ≥0.25-<1% |

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Wash contaminated clothing before use.

After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters**Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Ensure adequate ventilation.

6.1.1 For non-emergency personnel Avoid contact with dripping or leaking material**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Use neutralising agent.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*** SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with skin, eyes and clothing.

Open and handle receptacle with care.

Ensure adequate ventilation

Avoid inhaling vapors.

Do not eat, drink or smoke during the usage of the product.

Wash hands before each break and after finishing work.

Information about fire - and explosion protection: No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:** Keep containers tightly closed in a dry, cool, well-ventilated area.**Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** Store under lock and key and out of the reach of children.**7.3 Specific end use(s)** No further relevant information available.*** SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 1310-58-3 potassium hydroxide**WEL (Great Britain) Short-term value: 2 mg/m³**DNELs**

(CAS: 1310-58-3) potassium hydroxide

Worker: 1 mg/m³ - Report: For human inhalation medium - frequency: Long term, systemic effectsConsumer: 1 mg/m³ - Report: For human inhalation medium - frequency: Long term, systemic effects

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(CAS: 64-02-8) Sodium ethylenediaminetetraacetate

Workers

Long-term exposure - systemic and local effects by inhalation: 1.5 mg/m³Short-term exposure - systemic and local effects by inhalation: 3 mg/m³

Consumers

Long-term exposure - systemic and local effects by inhalation: 0.6 mg/m³Short-term exposure - systemic and local effects by inhalation: 1.2 mg/m³

Long-term exposure - systemic effects, oral: 25 mg/kg bw/d

(CAS: 68424-85-1) Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Workers

Long-term exposure, systemic effects, through the dermal: 5.7 mg/Kg/d

Long-term exposure, systemic effects, by inhalation: 3.96 mg/m³

Consumers

Long-term exposure, systemic effects, oral: 3.4 mg/Kg/d

Long-term exposure, systemic effects, through the dermal: 3.4 mg/Kg/d

Long-term exposure, systemic effects, by inhalation: 1.64 mg/m³**PNECs**

(CAS: 64-02-8) Tetrasodium ethylenediaminetetraacetate

Fresh water: 2.2 mg/l

Marine water: 0.22 mg/l

Intermittent releases: 1.2 mg/l

Soil: 0.72 mg/kg

Sewage treatment plant: 43 mg/l

(CAS: 68424-85-1) Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Fresh water: 0.0009 mg/L

Intermittent releases: 0.00016 mg/L

Marine water: 0.0096 mg/L

Fresh water sediments: 12.27 mg/Kg

Marine water sediment: 13.09 mg/Kg

Soil: 7 mg/Kg

Sewage treatment plant: 0.4 mg/L

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****8.2.1. Appropriate engineering controls**

Provide adequate ventilation.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower

Appropriate engineering controls No further data; see item 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke while using the product.

Avoid contact with skin and eyes.

Take off contaminated clothing and wash before reuse.

Do not breathe vapours or mists.

Take appropriate protective measures with regard to the handling of chemicals and mixtures.

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Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Chemically resistant, protective work clothing (EN 14605) and boots.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information**

| | |
|-----------------------------------------------------------------|------------------|
| Physical state | Liquid |
| Colour: | Red |
| Odour: | nearly odourless |
| Odour threshold: | Not determined |
| Melting point/freezing point: | Not determined |
| Boiling point or initial boiling point and boiling range | Not determined |
| Flammability | Not applicable |
| Lower and upper explosion limit | |
| Lower: | Not determined |

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| | |
|----------------------------------------------------------|------------------------------|
| Upper: | Not determined |
| Flash point: | Not Flammable |
| Auto-ignition temperature: | Product is not selfigniting. |
| Decomposition temperature: | Not determined |
| pH at 20 °C | 13-14 |
| Viscosity: | |
| Kinematic viscosity | Not determined |
| Kinematic viscosity | |
| Dynamic: | Not determined |
| Solubility | |
| water: | Not determined |
| Partition coefficient n-octanol/water (log value) | Not determined |
| Vapour pressure: | Not determined |
| Density and/or relative density | |
| Density at 20 °C: | 1.05-1.07 g/cm ³ |
| Relative density | Not determined |
| Vapour density | Not determined |

9.2 Other information**Appearance:****Form:** Liquid**Important information on protection of health and environment, and on safety.****Auto-ignition temperature:** Not determined**Explosive properties:** Product does not present an explosion hazard.**Cloud point / clarification point:****Oxidising properties** Not oxidising**Evaporation rate** Not determined**Information with regard to physical hazard classes**

| | |
|----------------------------------------------------------------------------------|------|
| Explosives | Void |
| Flammable gases | Void |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

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SECTION 10: Stability and reactivity**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided** Stable at environment temperature.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials** No further relevant information available.**10.6 Hazardous decomposition products** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

| | | |
|------|------|-------------------|
| Oral | LD50 | 5,085 mg/kg (rat) |
|------|------|-------------------|

CAS: 1310-58-3 potassium hydroxide

| | | |
|------|------|-----------------|
| Oral | LD50 | 273 mg/kg (rat) |
|------|------|-----------------|

CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

| | | |
|------|------|-------------------|
| Oral | LD50 | 1,780 mg/kg (rat) |
|------|------|-------------------|

| | | |
|------------|-------------------|-------------------|
| Inhalative | LC50/4 h (vapour) | <5,000 mg/l (rat) |
|------------|-------------------|-------------------|

Skin corrosion/irritation Causes severe skin burns and eye damage.**Serious eye damage/irritation** Causes serious eye damage.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**Additional toxicological information:****Repeated dose toxicity** Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

| | |
|------------|------------------------------------------------------------------------|
| EC50 (72h) | >300 mg/l (algae) (Freshwater Alga and Cyanobacteria, Grow Inhibition) |
|------------|------------------------------------------------------------------------|

| | |
|------------|--------------------------|
| EC50 (48h) | 140 mg/l (Daphnia magna) |
|------------|--------------------------|

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| | |
|----------------------------------------------------------------|----------------------------------------------|
| LC50 (96h) | >1,000 mg/l (Lepomis macrochirus (Bluegill)) |
| NOEC (21d) | 25 mg/l (Daphnia) ≥25.7 mg/l (fis) |
| CAS: 68424-85-1 alkyl dimethyl benzyl ammonium chloride | |
| EC50 | 0.016 mg/l (daphnia magna) |

12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies (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 detergent manufacturer.

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil**

(CAS: 7758-29-4) pentasodium triphosphate
 KOC: 142.44

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse effects****Remark:** Harmful to fish**Additional ecological information:****General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

The product contains materials that are harmful to the environment.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA

UN1719

14.2 UN proper shipping name
ADR
IMDG, IATA

1719 CAUSTIC ALKALI LIQUID, N.O.S.
 CAUSTIC ALKALI LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class
Label

8 Corrosive substances.
 8

14.4 Packing group
ADR, IMDG, IATA

II

14.5 Environmental hazards:
Marine pollutant:

No

14.6 Special precautions for user
Hazard identification number (Kemler code):
EMS Number:
Segregation groups
Stowage Category
Segregation Code

Warning: Corrosive substances.
 80
 F-A,S-B
 Alkalis
 A
 SG22 Stow "away from" ammonium salts
 SG35 Stow "separated from" SGG1-acids

14.7 Maritime transport in bulk according to IMO
instruments

Not applicable.

Transport/Additional information:**ADR**

Excepted quantities (EQ):
Limited quantities (LQ)
Excepted quantities (EQ)

E2
 1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

Transport category
Tunnel restriction code

2
 E

IMDG

Limited quantities (LQ)
Excepted quantities (EQ)

1L
 Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation":

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., 8, II

SECTION 15: Regulatory information

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

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
Regulation (EC) No.648/2004 on detergents, as amended.

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment:

Not applicable

A Chemical Safety Assessment has not been carried out.

SECTION 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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS:



SUSTCHEM S.A.

REACH & Chemical Services Department

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Contact:

Kalogeropoulos Chemicals S.A.

e-mail: info@kalochem.gr

Version number of previous version: 3**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**

Classification according to CLP regulation 1272/2008/EC.

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