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

### 1.1 Product identifier

CEKA SOL L  
Dental solder with flux

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

Dental solders  
Professional use

**Uses advised against:** Do not use for purposes other than those listed.

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

ALPHADENT NV, Mannebeekstraat 33, 8790 Waregem, Belgium, T +32 (0)56 629 531

### 1.4 Emergency telephone number

Belgian Poison Control Centre (24 hours) **070 245 245** or call a poison control centre in your area

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## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008:** Non-hazardous

**Pictograms:** None

**Hazard class and category:** None

**Hazard statement:** Non-hazardous

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008:**

**Pictogram, signal word:** None

**Hazard statement:** Non-hazardous

**Precautionary statement:** None in particular

### 2.3 Other hazards

The substance/mixture does not contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII. No information on other hazards.

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## 3. Composition/information on ingredients

### 3.1 Substances: Irrelevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements.

Metal alloy - dental solder with flux

Potassium hydroxide related only to the incorporated flux

Substance	Concentration	Classification	Index	CAS	EINECS	Reach
Potassium hydroxide	> 0.1 <= 1%	Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	

## 4. First aid measures

### 4.1 Description of first aid measures

**Inhalation:** Air the area. Move the contaminated patient immediately from the area and keep him at rest in a well ventilated area. If you feel unwell, seek medical advice.

**Direct contact with skin (with flux):** Wash thoroughly with soap and running water.

**Direct contact with eyes (with flux):** Wash immediately and thoroughly with running water for at least 10 minutes.

**Ingestion:** Rinse mouth with water. If you feel unwell, seek medical advice.

**4.2 Most important symptoms and effects, both acute and delayed:** No data available

**4.3 Indication of any immediate medical attention and special treatment needed:** No data available

## 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:**

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

**Extinguishing media which must not be used for safety reasons:**

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

**5.2 Special hazards arising from the substance or mixture:** No data available

### 5.3 Advice for firefighters

Use a breathing apparatus, safety helmet and full protective suit.

The water spray can be used to protect the people involved in the extinction.

A self-contained breathing apparatus may also be used, especially when working in confined and poorly ventilated areas and when using halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc). Keep containers cool with water spray.

## 6. Accidental release measures

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

#### 6.1.1 For non-emergency personnel:

Wear mask, gloves and protective clothing.

**6.1.2 For emergency responders:**

Wear mask, gloves and protective clothing. Provide sufficient ventilation.

**6.2 Environmental precautions**

Contain spills. The product is recoverable.

Discharge the remains in compliance with the regulations.

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

**6.3.1 For containment:**

Rapidly recover the product. Wear a mask and protective clothing.

Recover the product for reuse, if possible, or removal.

**6.3.2 For cleaning up:** After wiping up, wash the area and materials involved with water.

**6.3.3 Other information:** None in particular

**6.4 Reference to other sections**

Refer to paragraphs 8 and 13 for more information.

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**7. Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact and inhalation of vapours during processing.

Do not eat or drink when using this product.

See also paragraph 8 below.

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

Keep in the original container. No other special measure required.

**7.3 Specific end use(s)**

Professional use: Solder with flux. Handle with care.

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**8. Exposure controls/personal protection**

**8.1 Control parameters**

Related to contained substances:

**potassium hydroxide:**

TLV: 2 mg/m<sup>3</sup> (ceiling value) (ACGIH 2000)

**8.2 Exposure controls**

**Appropriate engineering controls:**

Professional use: No specific monitoring foreseen

**Individual protection measures:**

**Eye / face protection:** Not needed for normal use.

**Hand protection:** Not needed for normal use.

**Skin protection:** Wear normal work clothing.

**Respiratory protection:** Not needed for normal use.

**Thermal hazards:** No hazard to report.

**Environmental exposure controls:** Use according to good working practices to avoid pollution into the environment.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	solid
Odour	odourless
Odour threshold	irrelevant
pH value	irrelevant
Melting point/freezing point	600-1170 °C
Initial boiling point and boiling range	undefined
Flash point	non-flammable (ASTM D92)
Evaporation rate	irrelevant
Flammability (solid, gas)	irrelevant
Upper/lower flammability or explosive limits	irrelevant
Vapour pressure	irrelevant
Vapour density	irrelevant
Relative density	not determined
Solubility	not soluble
Water solubility	not soluble
Partition coefficient: n-octanol-water	irrelevant
Auto-ignition temperature	irrelevant
Decomposition temperature	irrelevant
Viscosity	irrelevant
Explosive properties	not explosive
Oxidizing properties	non-oxidizing

**9.2 Other information:** No data available

## 10. Stability and reactivity

**10.1 Reactivity:** No reactivity hazards

**10.2 Chemical stability:** No hazardous reaction when handled and stored according to provisions.

**10.3 Possibility of hazardous reactions:** There are no hazardous reactions.

**10.4 Conditions to avoid:** Nothing to report.

**10.5 Incompatible materials:** Nothing to report.

**10.6 Hazardous decomposition products:** Does not decompose when used for intended uses.

## 11. Toxicological information

### 11.1 Information on toxicological effects

ATE(mix) oral = 166,666.7 mg/kg

ATE(mix) dermal = 0.0 mg/kg

ATE(mix) inhalation = 0.0 mg/l/4 h

**Acute toxicity:** Not applicable

**Skin corrosion/irritation:** Not applicable

**Serious eye damage/irritation:** Not applicable

**Respiratory or skin sensitization:** Not applicable

**Germ cell mutagenicity:** Not applicable

**Carcinogenicity:** Not applicable

**Reproductive toxicity:** Not applicable

**Specific Target Organ Toxicity (STOT)**

Single exposure: not applicable

Repeated exposure: not applicable

**Aspiration hazard:** Not applicable

### Health hazards:

Contact with eyes: Accidental contact with the eyes may cause irritation.

Contact with skin: The product is not an irritant. Repeated and prolonged direct contact can degrease and irritate the skin and cause dermatitis in some cases.

Ingestion: Ingestion of the product may cause mucosal irritation of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause irritation to the respiratory tract.

Related to contained substances:

### Potassium hydroxide:

Routes of exposure: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk: Evaporation at 20 °C is negligible; a harmful concentration of air-dispersed particles can, however, be reached quickly.

Effects of short-term exposure: The substance is very corrosive to the eyes, the skin and the respiratory tract.

Corrosive if swallowed. Inhaling an aerosol of this substance can cause pulmonary oedema (see note).

Effects of repeated or long-term exposure: Repeated or prolonged contact with skin may cause dermatitis.

### Acute hazards/Symptoms

Inhalation: Corrosive. Burning sensation. Sore throat. Cough. Difficulty in breathing.

Shortness of breath. Symptoms may be delayed (see notes).

Corrosive to the skin. Redness. Pain. Blisters. Severe skin burns.

Corrosive to the eyes. Redness. Pain. Blurred vision. Severe deep burns.

Ingestion: Corrosive. Abdominal pain. Burning sensation. Shock or collapse.

Note: The exposure limit value must not be exceeded in any moment of work exposure. Symptoms of lung oedema often do not occur before a few hours and are aggravated by physical effort. Rest and medical observation are therefore essential.

## 12. Ecological information

### 12.1 Toxicity

Related to contained substances:

**Potassium hydroxide:**

This substance can be dangerous for the environment. Special attention must be paid to aquatic organisms.

Use according to good working practices to avoid pollution into the environment.

**12.2 Persistence and biodegradability:** No data available

**12.3 Bioaccumulative potential:** No data available

**12.4 Mobility in soil:** No data available

### 12.5 Results of PBT and vPvB assessment

The substance / mixture does not contain PBT/vPvB substances according to Regulation (CE) No 1907/2006, Annex XIII.

**12.6 Other adverse effects:** No adverse effects

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## 13. Disposal considerations

### 13.1 Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Operate according to local or national regulations.

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## 14. Transport information

### 14.1 UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID), by air (ICAO / IATA); by sea (IMDG).

**14.2 UN proper shipping name:** None

**14.3 Transport hazard class(es):** None

**14.4 Packing group:** None

**14.5 Environmental hazards:** None

**14.6 Special precautions for user:** No data available

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

It is not intended to carry bulk.

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## 15. Regulatory information

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

Legislative Decree 3/2/1997 No 52 (Classification, packaging and labelling of dangerous substances).  
Legislative Decree 14/3/2003 No 65 (Classification, packaging and labelling of dangerous preparations).  
Legislative Decree 2/2/2002 No 25 (Risks deriving from chemical agents during work). Decree of the Ministry of Labour 26/02/2004 (Occupational exposure limits), Ministerial Decree 03/04/2007 (Implementation of Directive no 2006/8/EC). Regulation (EC) No 1907/2006 (REACH), Regulation (EC) No 1272/2008 (CLP), Regulation (EC) No 790/2009. Legislative Decree 21/09/ 2005 No 238 (Directive Seveso III).

### 15.2 Chemical safety assessment

The supplier has made an assessment of chemical safety.

## 16. Other information

Description of the hazard statements exposed to point 3

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Classification based on data of all mixture components

### GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent updates
2. Directive 67/548/EEC and subsequent amendments and adjustments
3. Council Regulation (EC) No 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) No 1272/2008 of the European Parliament (CLP) and subsequent updates
5. Council Regulation (EC) No 758/2013 of the European Parliament
6. Regulation (EC) No 453/2010 of the European Parliament
7. Regulation (EC) No 528/2012 of the European Parliament and subsequent updates
8. Council Regulation (EC) No 648/2004 of the European Parliament and subsequent updates
9. The Merck Index edition 10
10. Handling Chemical Safety
11. NIOSH – Registry of Toxic Effects of Chemical Substances
12. INRS Centre Document
13. Patty – Industrial Hygiene and Toxicology
14. N.I. Sax – Dangerous properties of Industrial Materials, 7<sup>th</sup> edition, 1989

### Note to the user:

The information in this sheet is based on knowledge available to us on the date of the latest version. The user must ensure the fitness and completeness of the information in relation to the specific use of the product. It should not be interpreted as a guarantee of any specific property of the product. The use of the product does not fall under our direct control. The user has the obligation to observe under their own liability laws and regulations on hygiene and safety.

We do not assume liability for improper use.