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

1.1 Product identifier

Solder with flux
Product code: CEKA SOL L

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

Solders with flux
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

SECTION 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 code(s):
Non-hazardous

Hazard statement code(s):
Non-hazardous

2.2 Label elements

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

Pictogram, signal word code(s):
None

Hazard statement code(s):
Non-hazardous

Precautionary statements:
None in particular

2.3 Other hazards

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

No information on other hazards.

SECTION 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 - solder with incorporated 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	

SECTION 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 the flux):

Wash thoroughly with soap and running water.

Direct contact with eyes (with the 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

SECTION 5. Firefighting measures

5.1 Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

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 respiratory protection.

Safety helmet and full protective suit.

The spray water 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 (fluobrene, Solkan 123, naf, etc).

Keep containers cool with water spray.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Wear gloves and protective clothing.

6.1.2 For emergency responders:

Wear gloves and protective clothing.

6.2 Environmental precautions

Contain spill.

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:

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.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact and inhalation of vapours during processing.

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.

Avoid contact and inhalation of vapours during processing.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Related to the substances contained:

potassium hydroxide: TLV: 2 mg/m³ (ceiling value) (ACGIH 2000)

Silver – TLV-TWA: 0.1 mg/m³

Copper – TLV-TWA: 0.2 mg/m³

8.2 Exposure controls

Appropriate engineering controls:

Professional use:

No specific monitoring foreseen

Individual protection measures:

(a) Eye/face protection
Not needed for normal use.

(b) Skin protection

(i) Hand protection
Not needed for normal use.

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report.

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

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Solid	
Odour	Odourless	
Odour threshold	Irrelevant	
pH	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(ies)	Not soluble	
Water solubility	Not soluble	
Partition coefficient	Irrelevant	
Auto-ignition temperature	Irrelevant	
Decomposition temperature	Irrelevant	
Viscosity	Irrelevant	
Explosive properties	Not explosive	
Oxidising properties	Non-oxidising	

9.2 Other information
No data available

SECTION 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.

SECTION 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) inhal = 0.0 mg/l/4 h

- (a) acute toxicity: not applicable
- (b) skin corrosion/irritation: not applicable
- (c) serious eye damage/irritation: not applicable
- (d) respiratory or skin sensitisation: not applicable
- (e) germ cell mutagenicity: not applicable
- (f) carcinogenicity: not applicable
- (g) reproductive toxicity: not applicable
- (h) specific target organ toxicity (STOT) single exposure: not applicable
- (i) specific target organ toxicity (STOT) repeated exposure: not applicable
- (j) aspiration hazard: not applicable

Hazardous health effects:

Through eye contact: Accidental contact with the eyes may cause irritation.

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

If swallowed: May cause mucosal irritation of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.

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

Related to the substances contained:

potassium hydroxide:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

RISK BY INHALATION: Evaporation at 20 °C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

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 note).

SKIN: Corrosive. Redness. Pain. Blisters. Severe skin burns.

EYES: Corrosive. 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.

SECTION 12. Ecological information

12.1 Toxicity

Related to the substances contained:
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) 1907/2006, Annex XIII.

12.6 Other adverse effects

No adverse effects

SECTION 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 authorised companies. Recover if possible. Operate according to local or national regulations.

SECTION 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.

SECTION 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 (Seveso III Directive).

15.2 Chemical safety assessment

The supplier has made a chemical safety assessment.

SECTION 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) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
5. Council Regulation (EC) 758/2013 of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 528/2012 of the European Parliament and subsequent updates
8. Council Regulation (EC) 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 – Fiche toxicologique
13. Patty – Industrial Hygiene and Toxicology
14. N.I. Sax – Dangerous properties of Industrial Materials, 7th 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 safety 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.

This sheet replaces and cancels all previous.