



1. Commercial product name and company identification

- 1.1 Commercial product name **CEKA SOL FLUX 1**
- 1.2 Company ALPHADENT NV, Textielstraat 24,
8790 Waregem, Belgium, + 32 (0)56 629 100
- 1.3 Emergency contact Belgian Poison Control Centre (24 hours)
070 245 245
or call a poison control centre in your area

2. Composition

- 2.1 Chemical characterization Potassium fluoroborate complex.
Mixture: consisting of the following components
- 2.2 Hazardous components **Potassium bifluoride**
CAS / EINECS 7789-29-9 / 232-156-2
Concentration 25-50 %
 T,  C; R 25-34
- Boric acid**, crude natural, containing not more than 85 % of H₃BO₃ calculated on the dry weight
CAS / EINECS 10043-35-3 / 233-139-2
- Potassium octahydrate-pentaborate**
CAS 12229-13-9
- Potassium tetrahydrate- tetraborate**
CAS 12045-78-2
- 2.3 Additional information For the wording of the listed risk phrases refer to section 16.

3. Hazards information



Information concerning to particular hazards to man and environment

The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU".

R 25 Toxic if swallowed.

R 34 Causes burns

Classification system

The classification is according to the latest editions of the EU lists, and extended by company and literature data.

4. First aid measures

- | | | |
|-----|---------------------|---|
| 4.1 | Eye contact | Rinse opened eye for several minutes under running water. Then consult a doctor. |
| 4.2 | Skin contact | Immediately wash with water and soap and rinse thoroughly. |
| 4.3 | Ingestion | Do not induce vomiting; call for medical help immediately. Drink plenty of water and provide fresh air. |
| 4.4 | Inhalation | In case of unconsciousness place patient in a stable laying down side position for transportation. |
| 4.5 | General information | Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. |

5. Fire-fighting measures

- | | | |
|-----|--|---|
| 5.1 | Suitable extinguishing media | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| 5.2 | For safety reasons unsuitable extinguishing agents | Not applicable |
| 5.3 | Protective equipment | No special measures required. |

6. Accidental release measures

- | | | |
|-----|---------------------------------------|--|
| 6.1 | Person-related safety precautions | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. |
| 6.2 | Measures for environmental protection | Do not allow to enter sewers/ surface or ground water. |
| 6.3 | Measures for cleaning/collecting | Use neutralizing agent. Dispose contaminated material as waste according to item 13. |

7. Handling and storage

- 7.1 Handling Thorough dedusting.
7.2 Storage Keep container tightly sealed.

8. Exposure controls / personal protection

- 8.1 Additional information about design of technical facilities No further data, see item 7.
8.2 Ingredients with limit values that require monitoring at the workplace **7789-29-9 potassium bifluoride**
WEL (UK) / IOELV (EU)
Long-term value: 2.5 mg/m³
8.3 Personal protective equipment Keep away from food, beverages and pet food.
Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
8.3.1 Respiratory equipment Not required
8.3.2 Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product / substance/ preparation. Material of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.

- 8.3.3 Eye protection



Tightly sealed goggles

9. Physical and chemical properties

- 9.1 Appearance:
- Form Powder
- Colour White
9.2 Odour Odourless
9.3 pH-value (10 g/l at 20 °C) 7.8
9.4 Change in condition Melting point: 600 °C
Boiling point: undetermined

9.5	Flash point	Not applicable
9.6	Ignition temperature	Not applicable
9.7	Self-igniting	Product is not self-igniting.
9.8	Danger of explosion	Product does not present an explosion hazard.
9.9	Density (at 20 °C)	1.2 g/cm ³
9.10	Solubility in / Miscibility with water at 20 °C	30 g/l Insoluble

10. Stability and reactivity

10.1	Stability	No decomposition if used according to specifications.
10.2	Hazardous reactions	No dangerous reactions known.
10.3	Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological information

11.1	Acute toxicity	
11.2	Primary irritant effect:	
	- on the skin:	Caustic effect on skin and mucous membranes
	- on the eye:	Strong caustic effect
11.3	Sensitization	No sensitizing effects known.
11.4	Additional toxicological information	The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Toxic Corrosive Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological information

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralized.

13. Disposal considerations

Product Recommendation: Must not be disposed of together with household garbage.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)



ADR/RID class: 6.1 (TC4) Toxic substances

Danger code (Kemler): 68

UN Number: 3290

Packaging group: II

Hazard label: 6.1+8

Description of goods: 3290 TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)

Limited quantities (LQ): LQ18

Transport category: 2

Tunnel restriction code: E

Marine transport IMDG



IMDG class: 6.1

UN Number: 3290

Label: 6.1+8

Packaging group: II

EMS Number: F-A, S-B

Marine pollutant: No

Proper shipping name: TOXIC SOLID, CORROSIVE, INORGANIC, N.O.S. (POTASSIUM HYDROGENDIFLUORIDE)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA class: 6.1

UN/ID Number: 3290

Label: 6.1+8

Packaging group: II

Proper shipping name: TOXIC SOLID,
CORROSIVE, INORGANIC, N.O.S. (POTASSIUM
HYDROGENDIFLUORIDE)

15. Regulatory information

Labelling according to EU guidelines:

The product has been marked in accordance with
EU Directives / respective national laws.
2004/73/CE; 2006/8/CE

Code letter and hazard designation of product:



T Toxic
C Corrosive

Hazard-determining components for labelling:
potassium bifluoride

Risk phrases:

25 Toxic if swallowed.
34 Causes burns.

Safety phrases:

26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.
45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).
60 This material and its container must be
disposed of as hazardous waste.

16. Other information

Relevant R-phrases

25 Toxic if swallowed.
34 Causes burns.

The above-mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as
description in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Ref. 91/155/EEC