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: Complex potassium fluoborate

2.2 Hazardous components:

Potassium hydrogen fluoride
CAS / EINECS 7789-29-9 / 232-156-2
Concentration 25-35 %
R-phrases R25-34

Boric acid
CAS / EINECS 10043-35-3 / 233-139-2
Concentration ---
R-phrases R20/21/22-36/37/38-40

Potassium pentaborate octahydrate
CAS / EINECS 12229-13-9
Concentration ---
R-phrases Not applicable

Potassium tetraborate tetrahydrate
CAS / EINECS 12045-78-2
Concentration ---
R-phrases R36/37/38

2.3 Further information: CEKA SOL FLUX 1 is always incorporated into the CEKA SOL solder tubes.

3. Hazards identification

Danger of irreversible effects. Toxic if swallowed and harmful by inhalation and in contact with skin. May cause irritation in contact with skin, eyes, and respiratory system. The vapours released during warming up may cause respiratory tract irritation.

4. First aid measures

4.1	Eye contact	Lift the upper and lower lids and rinse for 15 minutes with running water. Consult an eye specialist if irritation persists.
4.2	Skin contact	Wash with plenty of water and soap. Consult a skin specialist if irritation persists.
4.3	Ingestion	Affected person should drink plenty of water. If necessary, seek medical advice.
4.4	Inhalation	Move affected person to fresh air. In case of respiratory problems, proceed with artificial respiration.
4.5	Further information	None

5. Fire-fighting measures

5.1	Suitable extinguishing media	Carbon dioxide, foam, water fog. Wear respiratory equipment and protective clothing to avoid skin and eye contact. In case of fire or explosion, toxic fumes may be released.
5.2	Extinguishing media to avoid	Not applicable

6. Accidental release measures

6.1	Personal precaution	Evacuate the area. Wear sutiable respiratory equipment, rubber boots, and gloves. Do not breathe vapours. Do not breathe or swallow dust and avoid contact with skin and eyes.
6.2	Environmental precautions	Prevent contamination of soil, drains, and surface waters.
6.3	Cleaning methods	Seal powder residue into a special container. Remove dust by vacuuming or wet sweeping to prevent powder dispersing in the air. Immediately clean contaminated objects and floor with water.

7. Handling and storage

7.1	Handling	Avoid exposure to dust and wear protective clothing when melting and grinding. Avoid skin and eye contact with the dust. Grind and melt with adequate ventilation only. Do not eat, drink or smoke while working.

7.2	Storage	Keep away from food and drink. Store in a dry place. Provide for good ventilation.

8. Exposure controls / personal protection

8.1	Technical equipment	No special safety measures required
8.2	Control of threshold limits	2.5 mg/m³ (Fumes may contain fluorides.)
8.3	Personal protection	Avoid contact with skin. Wear protective clothing.
8.3.1	Respiratory equipment	
8.3.2	Hand protection	Suitable gloves
8.3.3	Eye protection	Safety goggles

9. Physical and chemical properties

9.1	Appearance	Powder
9.2	Colour	White
9.3	Odour	Odourless
9.4	Change in physical state	Melting point: approximately 600 °C
9.5	Density	1.2 g/cm³
9.6	Vapour pressure	Not applicable
9.7	Viscosity	Not applicable
9.8	Solubility	In water: 30 g/l (20 °C) Organic solvent: not soluble
9.9	pH-value	10 g/l H_2O, 20 °C: 7.8
9.10	Flash point	Not applicable
9.11	Ignition temperature	Not applicable
9.12	Explosion limits	Not applicable

10. Stability and reactivity

10.1	Stability	Decomposes above melting point and releases traces of hydrogen fluoride.
10.2	Hazardous reactions	Avoid heat.
10.3	Hazardous decomposition products	Hydrogen fluoride may be released upon decomposition.
10.4	Materials to avoid	Upon contact and heating with concentrated sulphuric acid, hydrogen fluoride is released.

11.	**Toxicological information**	Toxic by inhalation and if swallowed. Eye and skin contact may cause irritation and sensitization. During decomposition fluorides are released, which may be toxic by inhalation.
12.	**Ecological information**	Not biodegradable. Prevent contamination of soil, drains, and surface waters.
13.	**Disposal considerations**	Product: dispose dust into containers to prevent powder dispersing in the air. Scraps are usually recycled. Packaging: contaminated packaging should be disposed of identically to the product itself. Uncontaminated packaging material should be reused, recycled or treated as household waste.
14.	**Transport information**	This product is not classified for any mode of transportation.
15.	**Regulatory information**	R-phrases 25 Toxic if swallowed 34 Causes burns 40 Possible risk of cancer 20/21/22 Harmful by inhalation, in contact with skin and if swallowed 36/37/38 Irritating to eyes, respiratory system and skin S-phrases 22 Do not breathe dust 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice 36 Wear suitable protective clothing 24/25 Avoid contact with skin and eyes

16. Other information	CEKA SOL FLUX 1 is always incorporated into the CEKA SOL solder tubes.

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