



according to Regulation (EU) 2020/878  
 Date of issue: 01.06.2016  
 Revision date: 13.12.2022 / Version/Replaced version: 2.0/1.0

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## Soldering compound L36

### SECTION 1: Identification of the substance/mixture and of the company/undertaking:

- 1.1 Product identifier**  
**Product form:** Mixture  
**Product name:** Soldering compound L36  
**UFI:** -
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses:** Industrial, commercial, brazing mass  
**Uses advised against:** None.
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer/Supplier:** ERNST HINRICHS Dental GmbH  
**Street / mailbox:** Borsigstr. 1  
**Country code. / postal code / city:** D - 38644 Goslar  
**Phone:** 0 53 21 / 5 06 24  
**Fax:** 0 53 21 / 5 08 81  
**E-mail / Website:** [info@hinrichs-dental.de](mailto:info@hinrichs-dental.de) / [www.hinrichs-dental.de](http://www.hinrichs-dental.de)  
**Further information obtainable from:** ERNST HINRICHS Dental GmbH
- Supplier**  
 Ivoclar Vivadent Ltd, 12 Omega Street, Rosedale,  
 Auckland 0632, New Zealand.  
 Customer Services Phone: 0508 486 252  
 Telephone: +64 9 914 9999 Fax: +64 9 914 9990  
 Email: [Customercare.nz@ivoclar.com](mailto:Customercare.nz@ivoclar.com)
- 1.4 Emergency telephone number**  
 National Poisons Centre: 0800 764 766 / 24 hours a day, 7 days a week New Zealand wide.

### SECTION 2: Hazards identification:

- 2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No. 1272/2008 [CLP]:** Not classified
- Adverse physicochemical, human health and environmental effects:** To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice
- 2.2 Label elements:**  
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]:**  
**EUH210** Safety data sheet available on request
- 2.3 Other hazards**  
**Results of PBT and vPvB assessment**  
**PBT:** Not applicable.  
**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients:

- 3.1 Substances** Not applicable

#### 3.2 Mixtures

##### Dangerous components:

CAS: 7727-43-7	Barium sulphate	25-50 %
EINECS: 231-900-3	Substance with a community workplace exposure limit	
CAS: 14808-60-7	Silica (SiO <sub>2</sub> ), < 1 % Quartz	15-25 %
EINECS: 238-878-4	Substance with a community workplace exposure limit	
CAS: 7778-18-9	Calcium sulphate	15-25 %
EINECS: 231-900-3	Substance with a community workplace exposure limit	

Full text of H-statements: see section 16



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### SECTION 4: First aid measures:

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- 4.1 Description of first aid measures:**
- First-aid measures general:** If you feel unwell, seek medical advice. If possible, show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. In case of loss of conscience, place the victim in the recovery position.
- First-aid measures after inhalation:** Allow breathing of fresh air. If breathing stops, give artificial respiration.
- First-aid measures after skin contact:** Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water.
- First-aid measures after eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Drink plenty of water as a precaution.
- 4.2 Most important symptoms and effects, both acute and delayed:** Not expected to present a significant hazard under anticipated conditions of normal use.
- 4.3 Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

### SECTION 5: Firefighting measures:

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- 5.1 Extinguishing media:**
- Suitable extinguishing media:** Adapt extinguishing agents to the environment. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media:** Do not use a heavy water stream.
- 5.2 Special hazards arising from the substance or mixture:** The product itself does not burn. In case of fire sulphur oxides (SO<sub>x</sub>) and barium oxide (BaO) may form.
- 5.3 Advice for firefighters:**
- Firefighting instructions** Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures:

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- 6.1 Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Evacuate unnecessary personnel. Avoid dust formation. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
- 6.2 Environmental precautions:** Prevent entry to sewers and public waters.

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- 6.3 Methods and material for containment and cleaning up:** Mechanically recover the product and collect in suitable container for disposal. Dispose of in accordance with relevant local regulations.
- 6.4 Reference to other sections:** Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

### SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:**  
**Additional hazards when processed:** Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wear personal protective equipment.
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- 7.2 Conditions for safe storage, including any incompatibilities:**  
**Storage conditions:** Store in original container. Store tightly closed in a dry and cool place.
- Prohibitions on mixed storage:** Keep away from food, drink and animal feedingstuffs.
- Storage class:** 10-13
- 7.3 Specific end use(s):** No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Components with critical values that require monitoring at the workplace:	
7727-43-7 Barium sulphate	
WEL 8-hr (UK)	Long-term values: Inhalable dust 10 mg/m <sup>3</sup> ; Respirable dust 4 mg/m <sup>3</sup>
OEL 8-hr (Ireland)	Respirable dust 5 mg/m <sup>3</sup>
14808-60-7 Silica (respirable crystalline)	
WEL 8-hr (UK)	Long-term value: 0,1 mg/m <sup>3</sup>
OEL 8-hr (Ireland)	Long-term value: 0,1 mg/m <sup>3</sup>
7778-18-9 Calcium sulphate (Gypsum, Plaster of Paris)	
WEL 8-hr (UK)	Long-term values: Inhalable dust 10 mg/m <sup>3</sup> ; Respirable dust 4 mg/m <sup>3</sup>
OEL 8-hr (Ireland)	10 mg/m <sup>3</sup>
DNEL:	
7727-43-7 Barium sulphate	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	10 mg/m <sup>3</sup>
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	10 mg/m <sup>3</sup>
Long-term - systemic effects, oral	13 000 mg/kg bodyweight/day
PNEC:	
7727-43-7 Barium sulphate	
aqua (freshwater)	115 µg/L



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sewage treatment plant (STP)	62.2 mg/L
sediment (freshwater)	600.4 mg/kg dwt
Soil	207.7 mg/kg

### 8.2 Exposure controls

#### Appropriate engineering controls:

Use adequate ventilation to keep vapour concentrations below applicable standard.

#### Personal protective equipment:

##### Hand protection:

Wear suitable gloves. Nitrile rubber. 0.4 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Eye protection:

Chemical goggles or safety glasses (EN 166).

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of dust formation use respirator with filter: A2-P2

##### Skin and body protection:

Wear suitable protective clothing.

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties:

### 9.1 Information on basic physical and chemical properties:

<b>Physical state:</b>	Solid, crystalline Powder / Granulate
<b>Colour:</b>	Brownish
<b>Odour:</b>	Neutral
<b>Melting point/Freezing point:</b>	No data available.
<b>Boiling point or initial boiling point and boiling range</b>	No data available.
<b>Flammability</b>	No data available.
<b>Lower and upper explosion limit</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	No data available.
<b>pH</b>	No data available.
<b>Kinematic viscosity</b>	Not applicable
<b>Solubility</b>	ca. 7.4 g/L at 20°C
<b>Partition coefficient n-octanol/water (log value)</b>	Not applicable
<b>Vapour pressure</b>	No data available.
<b>Density and/or relative density</b>	3.07 g/cm <sup>3</sup> at 20°C
<b>Relative vapour density</b>	Not applicable
<b>Particle characteristics</b>	No data available.

### 9.2 Other information:

#### Explosive properties:

No explosive properties

#### Oxidising properties:

No oxidising properties

#### Bulk density:

1 400 g/l



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### SECTION 10: Stability and reactivity:

<b>10.1 Reactivity:</b>	No hazardous reactions known under normal conditions of use.
<b>10.2 Chemical stability:</b>	Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.
<b>10.3 Possibility of hazardous reactions:</b>	No hazardous reactions known.
<b>10.4 Conditions to avoid:</b>	No information available.
<b>10.5 Incompatible materials:</b>	Reducing agents
<b>10.6 Hazardous decomposition products:</b>	At high temperatures sulphur oxides (SO <sub>x</sub> ) and barium oxide (BaO) may form.

### SECTION 11: Toxicological information:

<b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:</b>	
<b>Acute toxicity:</b>	Not classified Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:		
7727-43-7 Barium sulphate		
Oral	LD50	> 5000 mg/kg (rat)

<b>Skin corrosion/irritation:</b>	Not classified Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation:</b>	Not classified Based on available data, the classification criteria are not met
<b>Respiratory or skin sensitisation</b>	Not classified Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity:</b>	Not classified Based on available data, the classification criteria are not met
<b>Carcinogenicity:</b>	Not classified Based on available data, the classification criteria are not met
<b>Reproductive toxicity:</b>	Not classified Based on available data, the classification criteria are not met
<b>Specific target organ toxicity (single exposure):</b>	Not classified Based on available data, the classification criteria are not met
<b>Specific target organ toxicity (repeated exposure):</b>	Not classified

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**Aspiration hazard:** Based on available data, the classification criteria are not met  
Not classified  
Based on available data, the classification criteria are not met

**11.2 Information on other hazards:**  
**Potential adverse human health effects and symptoms:** Based on available data, the classification criteria are not met

### SECTION 12: Ecological information:

**12.1 Toxicity:**  
**Acute aquatic toxicity:** Not classified  
**Chronic aquatic toxicity:** Not classified

LD/LC50 values that are relevant for classification:	
7727-43-7 Barium sulphate	
LC50 fish	> 174 mg/l 96 h, Danio rerio
EC50 crustacea	14.5 mg/l, 48 h Daphnia magna
EC50 algae	> 100 mg/l 72 h, Pseudokirchneriella subcapitata
NOEC chronic fish	≥ 100 mg/l 33 d, Danio rerio
NOEC chronic algae	≥ 100 mg/l 72 h, Pseudokirchneriella subcapitata

**12.2 Persistence and degradability:** The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential:** Bioaccumulation unlikely.

**12.4 Mobility in soil:** Water-soluble solid. The product is mobile in soil.

**12.5 Results of PBT and vPvB assessment:** Does not meet the PBT- or vPvB criteria of REACH regulation, annex XIII.

**12.6 Endocrine disrupting properties:** No further relevant information available.

**12.7 Other adverse effects:** No other effects known.

### SECTION 13: Disposal considerations:

**13.1 Waste treatment methods**  
**Regional legislation (waste):** Dispose in a safe manner in accordance with local/national regulations.

**Waste disposal recommendations:** When totally empty, containers are recyclable like any other packing.

**European List of Waste (LoW) code** The waste code from the European Waste Catalogue (EWC) is dependent on the waste producer and can therefore be different for a product.

European waste catalogue
The waste key number must be determined, therefore, separately by each waste producer.

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18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE)
18 01 00	wastes from natal care, diagnosis, treatment or prevention of disease in humans

### SECTION 14: Transport information:

<b>14.1 UN number or ID number:</b> <b>ADR, IMDG, IATA:</b>	Not applicable
<b>14.2 UN proper shipping name</b> <b>ADR, IMDG, IATA:</b>	Not applicable
<b>14.3 Transport hazard class(es)</b> <b>ADR, IMDG, IATA:</b>	Not applicable
<b>14.4 Packing group:</b> <b>ADR, IMDG, IATA:</b>	Not applicable
<b>14.5 Environmental hazards:</b>	No
<b>Marine pollutant:</b>	No
<b>Other information:</b>	No supplementary information available
<b>14.6 Special precautions for user:</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments:</b>	Not applicable.

### SECTION 15: Regulatory information:

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> <b>EU-Regulations:</b>	This mixture is classified as not hazardous according to regulation (EC) 1272/2008.
<b>National regulations:</b>	<b>Approval Code:</b> None allocated <b>Group Standard:</b> None allocated
<b>15.2 Chemical safety assessment:</b>	

### SECTION 16: Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

**Changes compared to the previous version:** Complete revision, adaptation to regulation (EU) 2020/878

**Abbreviations and acronyms:**  
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

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CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	“International Maritime Dangerous Goods Code” for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.