



according 1907/2006/EG, Article 31

Date of issue: 01.06.2016

Revision date: - / Version: 1.0

Soldering compound L36

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

- 1.1 Product identifier
Product name: Soldering compound L36
- 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 / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification:

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified
- 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 Substance Not applicable
3.2 Mixture

Dangerous components:

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

Full text of H-statements: see section 16

SECTION 4: First aid measures:

- 4.1 Description of first aid measures:
First-aid measures general: Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.
- First-aid measures after inhalation: Allow breathing of fresh air. If breathing stops, give artificial respiration. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- 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.



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| <p>4.2 Most important symptoms and effects, both acute and delayed:</p> <p>4.3 Indication of any immediate medical attention and special treatment needed:</p> | <p>First-aid measures after ingestion: Rinse mouth. Get medical advice/attention if you feel unwell.</p> <p>Not expected to present a significant hazard under anticipated conditions of normal use.</p> <p>Treat symptomatically.</p> |
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SECTION 5: Firefighting measures:

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| <p>5.1 Extinguishing media:
Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>5.2 Special hazards arising from the substance or mixture:</p> <p>5.3 Advice for firefighters:
Firefighting instructions</p> <p>Protection during firefighting:</p> | <p>Making extinguishing agents environment-friendly. Foam. Dry powder. Carbon dioxide. Water spray. Sand.</p> <p>Do not use a heavy water stream.</p> <p>The product itself does not burn. In case of fire sulphur oxides (SOx) and barium oxide (BaO) may form.</p> <p>Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.</p> <p>Do not enter fire area without proper protective equipment, including respiratory protection.</p> |
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SECTION 6: Accidental release measures:

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| <p>6.1 Personal precautions, protective equipment and emergency procedures:</p> <p>6.2 Environmental precautions:</p> <p>6.3 Methods and material for containment and cleaning up:</p> <p>6.4 Reference to other sections:</p> | <p>Provide adequate ventilation. Evacuate unnecessary personnel. Use personal protective equipment as required. Avoid dust formation.</p> <p>Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.</p> <p>On land, sweep or shovel into suitable containers. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.</p> <p>Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.</p> |
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SECTION 7: Handling and storage:

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| <p>7.1 Precautions for safe handling:
Additional hazards when processed:</p> <p>Hygiene measures:</p> <p>7.2 Conditions for safe storage, including any incompatibilities:
Storage conditions:</p> <p>Storage class:</p> <p>7.3 Specific end use(s):</p> | <p>Ensure good ventilation of the work station. Avoid dust formation.</p> <p>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. Contaminated work clothing should not be allowed out of the workplace.</p> <p>Store in original container. Store tightly closed in a dry and cool place.</p> <p>10-13</p> <p>No additional information available.</p> |
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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	Long-term values: Inhalable dust 10 mg/m ³ ; Respirable dust 4 mg/m ³
	14808-60-7 Silica (respirable crystalline)



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WEL	Long-term value: 0,1 mg/m ³
7778-18-9 Calcium sulphate (Gypsum, Plaster of Paris)	
WEL	Long-term values: Inhalable dust 10 mg/m ³ ; Respirable dust 4 mg/m ³
DNEL:	
7727-43-7 Barium sulphate	
Inhalation, chronic exposure, systemic effect:	10 mg/m ³ (worker)
Oral, chronic exposure, systemic effect:	13 000 mg/kg/d (general population)
Inhalation, chronic exposure, systemic effect:	10 mg/m ³ (general population)
PNEC:	
7727-43-7 Barium sulphate	
aqua (freshwater)	115 µg/L
sewage treatment plant (STP)	62.2 mg/L
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.
- Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of dust formation use respirator with filter: FFP1
- Skin and body protection: Wear suitable protective clothing.

SECTION 9: Physical and chemical properties:

- 9.1 Information on basic physical and chemical properties:
- Appearance: Crystalline Powder / Granulate
- Physical state: Solid
- Colour: Brownish
- Odour: Neutral
- Odour threshold: No data available.
- pH: No data available.
- Melting point/Freezing point: No data available.
- Boiling point: No data available.
- Flash point: No data available.
- Flammability (solid, gas): None.
- Auto-ignition temperature: No data available.
- Decomposition temperature: No data available.
- Oxidising properties: No oxidising properties.
- Explosive properties: No explosive properties.
- Explosive limits: No data available.
- Vapour pressure: No data available.
- Density: 3.07 g/cm³ at 20°C
- Bulk density: 1 400 g/L
- Relative density: No data available.
- Relative vapour density at 20 °C: No data available.
- Relative evaporation rate (butylacetate=1): No data available.
- Solubility: Ca. 7.4 g/L at 20°C
- Log Pow: No data available.
- Viscosity, dynamic: No data available.
- Viscosity, kinematic: No data available.
- 9.2 Other information:



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No additional information available.

SECTION 10: Stability and reactivity:

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

SECTION 11: Toxicological information:

11.1 Information on toxicological effects	
Acute toxicity:	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 > 5 000 mg/kg (rat)
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met
Aspiration hazard:	Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met



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SECTION 12: Ecological information:

- 12.1 Toxicity:
 - Aquatic toxicity: No further relevant information available.
- 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:
 - PBT: Not applicable.
 - vPvB: Not applicable.
- 12.6 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.	
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:

- 14.1 UN number:
 - ADR, IMDG, IATA: Not applicable
- 14.2 UN proper shipping name
 - ADR, IMDG, IATA: Not applicable
- 14.3 Transport hazard class(es)
 - ADR, IMDG, IATA: Not applicable
- 14.4 Packing group:
 - ADR, IMDG, IATA: Not applicable
- 14.5 Environmental hazards:
 - No
 - Marine pollutant: No
 - Other information: No supplementary information available
- 14.6 Special precautions for user:
 - Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:
 - Not applicable.

SECTION 15: Regulatory information:

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - EU-Regulations: This mixture is classified as not hazardous according to regulation (EC) 1272/2008.
 - National regulations: No additional information available
- 15.2 Chemical safety assessment:
 - A chemical safety assessment has not been carried out.



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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.

Abbreviations and acronyms:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent