

## **1 Identification of the substance/mixture and of the company/undertaking**

### **1.1 Product identifier**

**Trade name:**  
**Rigips Strahlenschutzplatte**

**1.2 Relevant identified uses of the mixture and uses advised against**  
No further relevant data available

**Application of the substance/the preparation:** Gypsum board

### **1.3 Details of the supplier of the Safety Data Sheet**

**Manufacturer/Supplier:**  
Saint-Gobain Rigips GmbH  
Schanzenstraße 84  
D-40549 Düsseldorf  
Germany

**National contact:**  
Saint-Gobain Rigips GmbH - Ladenburg Development Center – Gypsum Development  
Dr.-Albert-Reimann-Straße 20  
D – 68526 Ladenburg  
+49(0)621-4701691  
Email [forschung-entwicklung@rigips.de](mailto:forschung-entwicklung@rigips.de)

**1.4 Emergency telephone number:**  
Tel +49 (0)621 4701691 (only at daily working-times)

Common European Emergency Number: 112

## **2 Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification according to regulation (EC) Nr. 1272/2008**  
The product is not classified according to the CLP regulation

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Not applicable

#### **Information concerning particular hazards for human and environment:**

Lead, in its compact form, is classified as a product that is not considered dangerous, however if it has arisen or is released from the use of hazardous substances. Dust or vapour containing lead may occur when the product is processed. Lead oxide occurs if the alloy is heated up in excess of the melting point.

Excessive exposure due to inhalation and/or ingestion of the dust of fumes containing lead could cause a loss in appetite, anaemia, malaise, insomnia, headaches, irritability, myalgia and joint pains, myasthenia, gastritis and liver alterations.

### **2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008** Void  
**Hazard pictograms** Void  
**Signal word** Void  
**Hazard statements** Void

Additional information:

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Safety data sheet available on request.

### **2.3 Other hazards**

#### **Results of PBT and vPvB assessment**

**PBT:** Not applicable

**vPvB:** Not applicable

## **3 Composition/information on ingredients**

### **Chemical characterization: Mixtures**

#### **Description:**

Plasterboard fire resistant board made of set gypsum, coated with board. Gypsum core with small quantities of starch, tensides as well as added fibre to act as a strength and fire-resistance-increasing reinforcement. Surface provided with lead sheet lamination. Water-based dispersion glue is used to attach the GKF board to lead sheeting.

Dangerous components. Void

Further components

CAS: 7778-18-9 calcium sulphate

EINECS: 231-900-3

Reg.nr: 01-2119444918-26-XXXX

Remark: Materials with a threshold value for exposure in the workplace – see point 8

This product is to be considered as an article as per REACH-definition. Articles are substances or preparations which feature a specific form, surface and shape which define their function to a larger extent than their chemical composition.

## **4 First aid measures**

### **4.1 Description of first aid measures**

**General information: No special measures required**

#### **After inhalation:**

If the lead dust is inhaled, remove the affected person out of the danger zone and ensure they inhale fresh air. Consult a doctor

#### **After skin contact:**

Wash off with water and soap and rinse again

#### **After eye contact:**

Rinse opened eye for several minutes under running water, If symptoms persist, consult a doctor.

#### **After Swallowing:**

Rinse out mouth and drink plenty of water. Seak medical treatment

### **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant data available.

### **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant data available.

## **5 Firefighting measures**

### **5.1 Extinguishing media**

**Suitable extinguishing agents:** All extinguishing agents are suited  
**For safety reasons unsuitable extinguishing agents:** None

### **5.2 Special hazards arising from the substance or mixture:**

In case of fire, the following can be released:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Lead oxide fumes/lead vapour are toxic

### **5.3 Advice for fire fighters:**

#### **Protective equipment**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

Additional information: The product is not flammable

## **6 Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.  
Do not inhale dust

### **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course

### **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.  
Avoid formation of dust.

### **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## **7 Handling and storage**

### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Ensure that suitable extractors are available on processing machines  
**Information about fire- and explosion protection:** No special measures required

### **7.2 Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and receptacles:** No special requirements  
**Information about storage in one common storage facility:** Not required  
**Further information about storage conditions:** Store in dry conditions

### **7.3 Specific end use(s)**

No further relevant data available.

## **8 Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Ingredients with limit values that require monitoring at the workplace.**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

#### **Remark:**

A = alveolar fraction, E = inhalable fraction

Additional information: the lists valid during the marking were used as basis.

### **8.2 Exposure controls**

#### **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not inhale dust/smoke/mist.

Avoid contact with the skin.

**Respiratory protection:** Wear dust mask FFP2 if dust forms.

#### **Protection of hands:**

Protective gloves.

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Wear safety goggles with side protection if dust develops

**Body protection:** Protective work clothing

## **9 Physical and chemical properties**

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

#### **Appearance:**

**Physical state:** Plate

**Colour:** Gypsum core: white, white-beige, white-grey

Board: beige, grey

Lead foil: metallic grey

**Odour:** Odourless

**pH-value:** Not applicable in the supplied state, suspension 6-9

**Change in condition**

**Melting point/Melting range:**

The lead sheet has a melting point of 327 °C

**Boiling point/boiling range**

Not applicable

**Flash point:**

Not applicable

**Density:**

Construction board: 0,8-0,9 g/cm<sup>3</sup>

Lead foil: 11,3 g/cm<sup>3</sup>

**Relative density:**

30-250 kg/m<sup>3</sup>

**Solubility in / Miscibility with water:**

c. 2 g/l (calcium sulphate x 2 H<sub>2</sub>O) at 20 °C

**Other information:**

The plasterboard is not flammable, building materials class A2 in accordance with DIN 4102, part 1.

Thermal decomposition of gypsum

in CaSO<sub>4</sub> and H<sub>2</sub>O from 140 °C

in CaO and SO<sub>3</sub> from 1000 °C

**10 Stability and Reactivity**

**10.1 Reactivity:** No further relevant data available.

**10.2 Chemical stability:**

**Thermal decomposition/conditions to be avoided:**

No decomposition if used and stored according to specifications.

Avoid damp conditions.

Temperatures which could cause the formation of lead vapour or lead oxide fumes (red hot).

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

**10.4 Conditions to avoid:** No further relevant data available.

**10.5 Incompatible materials:** Strong oxidation agents. Ammonium nitrate. Azide

**11 Toxicological information**

**Information on toxicological effects**

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect

**on the eye:** No irritant effect

**Sensitization:** No sensitizing effects known

**Acute effects (acute toxicity, irritation and corrosivity):**

Lead is used as a safety-relevant component for the lead lamination of the product. An acute intoxication after ingestion or coming into contact with skin is not probable. Due to the poor resorption via the gastrointestinal mucosa-adherent, extremely high doses could cause acute poisoning at best. Based on proven medical knowledge, it is not likely that lead can be absorbed into the system via unbroken skin. A long-term, increased intake of dust containing lead can cause the lead to reach the bloodstream. In the case of pregnancy, the risk of intrauterine damage is probable. If pregnant women are exposed in this manner, such damage cannot be excluded, even if the MAK value has been maintained.

## **12 Ecological information**

### **12.1 Toxicity:**

Aquatic toxicity: No further relevant data available.

### **12.2 Persistence and degradability:**

No further relevant data available.

**12.3 Bioaccumulative potential:** No further relevant data available.

**12.4 Mobility in soil:** No further relevant data available.

### **12.5 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

**12.6 Other adverse effects:** No further relevant data available.

## **13 Disposal considerations**

### **Waste treatment methods**

#### **Recommendation:**

Disposal must be made according to official regulations  
Lead should be recycled.

### **European waste catalogue**

17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01  
17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02  
and 17 09 03  
17 04 03 lead

### **Uncleaned packaging**

#### **Recommendation**

Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.

#### **Recommendation:**

The mentioned waste-classes are only an advice because according to EC-Law the waste-class must be defined by the origin of the waste. The correct waste code may differ and must be classified by the waste owner.

Attention: Observe local regulations and laws!

## **14 Transport Information**

UN-Number ADR, IMDG, IATA	Void
UN proper shipping name ADR, IMDG, IATA	Void
Transport hazard class(es) ADR, IMDG, IATA Class:	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable
Special precautions for users:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code:	Not applicable
UN „Model Regulation“:	-

### **15 Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Water hazard class:**

Water hazard class 1 (VwVwS Germany 17.05.1999). slightly hazardous for water

**TRGS505**

Metallic lead is included at REACH candidate list for substances of very high concern (toxic for reproduction category 1A Article 57 C)

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.

### **16 Other information**

**Indication of changes**

New safety data sheet acc. 1907/2006/EG; Annex II, as amended (EU 2015/830)

**Department issuing MSDS:**

Saint-Gobain Rigips GmbH, Department: Ladenburg Development Center – Gypsum Development (LDC-GD); 68526 Ladenburg

**Point of contact:** See point 1

Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)