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

Uses of the substance/mixture: building material

1.3 Details of the supplier of the product information and processing instructions

Manufacturer/Supplier

SAINT-GOBAIN RIGIPS GmbH
Willstätterstraße 60
40549 Düsseldorf
Germany

National contact

SAINT-GOBAIN RIGIPS GmbH - Ladenburg Development Center – Gypsum Development
Am Hafen 20
68526 Ladenburg
Germany
Phone: +49 (0)621 - 4701691
Email: forschung-entwicklung@rigips.de

2 Hazards identification

2.1 Classification of the substance or mixture

Lead foil laminated gypsum boards are defined as articles according to REACH. Classification and labelling according to CLP Regulation 1272/2008 is not required.

Nevertheless, please note this product information.

2.2 Label elements

No labelling according to regulation (EC) No. 1272/2008.

Hazard pictograms: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

2.3 Other hazards

Lead-laminated plasterboard does not pose a significant risk to health. Lead-containing dust or smoke may be produced when processing the product. Lead oxides are formed when the alloy is heated above its melting point.

Severe exposure through inhalation and/or ingestion of lead-containing dust or smoke can lead to health hazards.

3 Composition / information on ingredients

Description: Article of carton-covered calcium sulphate core of different hydrate levels with additives (such as starch and surfactants as well as fibre additives to increase strength and fire resistance) and lead lamination bonded to the underside with white glue.

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.

Hazardous ingredients:

Lead (50-80%)

CAS no.: 7439-92-1

EC / List no.: 231-100-4

Repr. 1A	H360FD: May damage fertility, may damage the unborn child.
Lact.	H362: May cause harm to breastfed babies.
Aquatic Acute 1	H400: Very toxic to aquatic life.
Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.

Dichloromethane (<1%)

CAS no.: 75-09-2

EC / List no.: 200-838-9

REACH registration no.: 01-2119480404-41-xxxx

Carc. 2	H351: Suspected of causing cancer.

Ingredients with a specific exposure limit (see point 8)

Calcium sulphate

	Anhydrite	Hemihydrate	Dihydrate	
CAS no.	7778-18-9	10034-76-1	10101-41-4	13397-24-5
EC / List no.	231-900-3	600-067-1	600-148-1	603-783-2

REACH registration no.: 01-2119444918-26-XXXX

4 First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

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 then drink plenty of water. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions

For safety reasons unsuitable extinguishing agents: Full water jet.

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_2)
Sulphur oxide
Smoke
Lead oxide smoke or lead vapour (toxic)

5.3 Advice for firefighting
Protective equipment: Wear self-contained breathing apparatus for larger fires.

Additional information: The product is not flammable.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid inhalation and contact with eyes and skin.

6.2 Environmental precautions
Do not allow to enter to sewers/surface water or ground water.

6.3 Methods and material for containment and cleaning up
Avoid dust formation; pick up material mechanically.

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

Avoid dust formation. Do not inhale dust. Avoid skin contact.

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.

Storage class: LGK (according to VCI-Concept): 13 - non-combustible solids.

7.3 Specific end use(s)

Not relevant.

8 Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace (Occupational exposure limits)

Lead, dusty (CAS 7439-92-1): TRGS 505: 0.15 mg/m³ E, TRGS 903 (Biological limit value): 150 µg/l blood

Calcium sulphate all hydrate levels (CAS 7778-18-9, 10034-76-1, 10101-41-4, 13397-24-5): MAK value: 4 mg/m³ E

General dust limit value: TRGS 900: 10 mg/m³ E; 1.25 mg/m³ A

Note: A = alveolar fraction, E = inhalable fraction

Additional information: The lists valid during the making 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.

Personal protection equipment

Respiratory protection: Wear dust mask FFP1 in accordance with EN 149 if dust develops.

Protection of hands: Gloves in accordance with EN 388 against mechanical stress; use skin protection for sensitive skin.

Eye protection: Wear safety goggles with side protection in accordance with EN 166 if dust develops.

Body protection: Protective working clothing.

9 Physical and chemical properties

9.1 Information in basis physical and chemical properties

General information:

Physical state:	Solid
Colour:	Gypsum core: white, white-beige, white-grey Paper-liner: different colours
Odour:	Odourless
Odour threshold:	Not determined
Melting point / melting range:	Lead foil: 327°C
Boiling temperature/boiling range:	Not applicable
Flammability (solid, gaseous)	Not applicable
Lower explosion limit:	Not determined
Upper explosion limit:	Not determined
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not determined
pH-value:	Not applicable in the supplied state, suspension 6-9
Kinematic Viscosity:	Not applicable
Dynamic Viscosity:	Not applicable
Solubility in/Miscibility with water:	ca. 2 g/l (calcium sulphate x 2 H_2O) at 20°C
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure at 20°C:	Not applicable
Density:	Not determined
Relative density:	Plasterboard: 0,8 – 0,9 g/cm³ Lead foil: 11,3 g/cm³
Bulk density:	Not applicable
Vapor density:	Not applicable

9.2 Other information

Form:	Board
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Evaporation rate:	Not applicable

Thermal decomposition of gypsum

to $CaSO_4$ and H_2O at 140°C
to CaO and SO_3 at 1000°C

10 Stability and Reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability
Thermal decomposition/conditions to be avoided: Plasterboard must not be stored above 40°C. Furthermore, temperatures that can lead to the formation of lead vapour or lead oxide smoke (red heat) must be avoided.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No decomposition if used according to specifications.

11 Toxicological information

11.1 Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiration of skin sensitisation: Based on available data, the classification criteria are not met.

Additional toxicological information: Non-toxic.

Lead is used as a safety-relevant component for the sheet metal lamination of the product. Acute intoxication after ingestion or skin contact is unlikely. Due to its poor absorption via the gastrointestinal mucosa, high doses may lead to acute symptoms of poisoning. The absorption of lead through intact skin is not to be assumed according to established occupational medical knowledge. Long-term increased uptake of lead-containing dusts can lead to an accumulation of lead in the blood.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Lead is used as a safety-relevant component for the sheet metal lamination of the product. Lead is classified as reprotoxic category 1A. Long-term increased intake of lead-containing dusts can lead to accumulation of lead in the blood. In the case of pregnancy, a risk of foetal damage must be assumed as probable, even if the AGW is observed.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Lead is used as a safety-relevant component for the sheet metal lamination of the product. Lead is classified as STOT RE 1.

Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability
No further relevant information available.

12.3 Bio accumulative potential
Inorganic lead is bio accumulative in the environment and can accumulate in aquatic and terrestrial plants and animals.

12.4 Mobility in soil
No further relevant information available.

Additional ecological information

General notes: Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable

vPvB: Not applicable

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods
Recommendation: Dispose of in accordance with official regulations. Lead should be recycled if possible.

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

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.

Observe local regulations and laws!

14 Transport information

14.1 UN number

ADR/RID:	3077	**IMDG:**	3077	**IATA:**	3077

14.2 UN proper shipping name

ADR/RID: Environmentally hazardous substance, solid, N.O.S. (Lead)

IMDG: Environmentally hazardous substance, solid, N.O.S. (Lead)

IATA: Environmentally hazardous substance, solid, N.O.S. (Lead)

14.3 Transport hazard class(es)

ADR/RID:	9	**IMDG:**	9	**IATA:**	9

14.4 Packing group

ADR/RID:	III	**IMDG:**	III	**IATA:**	III

14.5 Environmental hazards

ADR/RID:	Yes	**IMDG:**	Yes	**IATA:**	Yes

IMDG: Lead is marine pollutant.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code

Not applicable.

15 Regulatory information

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

National regulations

Water hazard class (according to German law): WGK 1 - slightly water hazardous (Classification according to VwVwS, Annex 4)

TRGS 505: Metallic lead is included in the REACH Candidate List of Substances of Very High Concern (Toxic for Reproduction Category 1A, Article 59).

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

List of relevant hazard statements: None.

Indication of changes: None.

Department issuing this information

SAINT-GOBAIN RIGIPS GmbH, Ladenburg Development Center, 68526 Ladenburg

Point of contact: See section 1.

Further information

The information is based on our current state of knowledge.

It describes the product exclusively regarding safety requirements and does not constitute a guarantee of the properties of the product described.

They may not be changed or transferred to other products.

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)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CMR:	Carcinogenic, mutagenic, reprotoxic substances
EINECS:	European Inventory of Existing Commercial Chemical Substances
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
MAK:	Maximale Arbeitsplatzkonzentration (Maximum workplace concentration) according to the list of the German Research Foundation (www.dfg.de/mak)
PBT:	Persistent, Bio accumulative and Toxic
vPvB:	very Persistent and very Bio accumulative
STOT RE 1:	specific target organ toxicity repeated exposition
SVHC:	Substances of Very High Concern (REACH)
TRGS:	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances), Germany