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

1.1 Product identifier
    Trade name: Safeboard Strahlenschutzplatte

1.2 Relevant identified uses of the substance or mixture and uses advised against
    Application of the substance / the preparation: Gypsum board

1.3 Details of the supplier of the safety data sheet
    Manufacturer/Supplier:
    Knauf Gips KG
    Postfach 10
    97343 Iphofen
    Germany
    Tel  +49 (0)9323/31-0
    Fax +49 (0)9323/31-277

    Further information obtainable from:
    Technical information service
    Tel +49 (0)9001/31-1000 (see point 16)
    E-mail Knauf-Direkt@Knauf.de

1.4 Emergency telephone number:
    Hotline for symptoms of poisoning and embryonic toxicology, Berlin
    Tel +49 (0)30-19240

2 Hazards identification

2.1 Classification of the substance or mixture
    Classification according to Regulation (EC) No 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:
    No hazards to be particularly mentioned.

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

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:
    Fire-resistant board made of set gypsum and barytes, cladded with board. Core with reduced
    additives of starch, tensides, fibre for strength and fire-resistance reinforcement added an inorganic
    pigment

    Dangerous components: Void
    Further components:
    CAS: 7778-18-9                           calcium sulfate
    EINECS: 231-900-3
    Reg.nr.: 01-2119444918-26-XXXX
    Remark: Materials with a threshold value for exposure in the workplace – see point 8.
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.
If skin irritation continues, consult a doctor.
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.
Seek medical treatment.

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: 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 (CO₂)
Sulphur oxide (SOₓ)
Hydrogen fluoride (HF)

5.3 Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid formation of 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.

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
Prevent formation of dust.
Do not inhale dust.
Ensure good ventilation/exhaustion at the workplace.

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.
Trade name: Safeboard Strahlenschutzplatte

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 information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
CAS: 7727-43-7 barium sulphate, natural (50-100%)
WEL Long-term value: 10* 4** mg/m³
  *inhalable dust **respirable dust
Remark 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.
Respiratory protection: Wear dust mask FFP2 if dust forms.
Protection of hands: Not required.
Eye protection: Wear safety goggles with side protection if dust develops.
Body protection: Light weight protective clothing

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:
  Form: Plate
  Colour: Gypsum core: yellowish
                 Board: beige, grey
  Odour: Odourless
  Odour threshold: Not determined.
  pH-value: Not applicable in the supplied state, suspension 6-9.
Change in condition
  Melting point/Melting range: Not applicable.
  Boiling point/Boiling range: Not applicable.
Flash point: Not applicable.
Flammability (solid, gaseous): Not applicable.
Ignition temperature: Not applicable.
Decomposition temperature: Not determined.
Self-igniting: Product is not selfigniting.
Danger of explosion: Product does not present an explosion hazard.
Vapour pressure: Not applicable.
Density: 1.3 - 1.4 g/cm³
Relative density Not determined.
Vapour density Not applicable.
Evaporation rate Not applicable.
Trade name: Safeboard Strahlenschutzplatte

Solubility in / Miscibility with water: c. 2 g/l (calcium sulphate x 2 H₂O) at 20°C

Partition coefficient (n-octanol/water): Not applicable.

Viscosity:
  Dynamic: Not applicable.
  Kinematic: Not applicable.

9.2 Other information
  Thermal decomposition of gypsum in CaSO₄ and H₂O from 140 °C in CaO and SO₃ from 1000 °C

10 Stability and reactivity

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
Avoid damp conditions.

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 dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects
Not toxic.

Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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 Bioaccumulative potential
No further relevant information available.

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 Other adverse effects
No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods
Recommendation
Disposal must be made according to official regulations.

European waste catalogue
17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
Uncleaned packaging:

**Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

### 14 Transport information

| 14.1 UN-Number | Void |
| ADR, IMDG, IATA |
| 14.2 UN proper shipping name | Void |
| ADR, IMDG, IATA |
| 14.3 Transport hazard class(es) | Void |
| ADR, IMDG, IATA |
| 14.4 Packing group | Void |
| ADR, IMDG, IATA |
| 14.5 Environmental hazards: | No |
| Marine pollutant: |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| UN "Model Regulation": | - |

### 15 Regulatory information

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

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Building material class:** Particulars see technical data sheet.

**Department issuing MSDS:** Knauf Gips KG, Abteilung Nachhaltigkeit und REACH, 97343 Iphofen

**Contact:**
Technical information service (see point 1)
A call to Knauf Direkt will be charged at 0.39 € per minute. Callers, the telephone numbers of whom are not saved in the Knauf Gips KG address database, e.g. private property owners or non-customers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

**Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

* Data compared to the previous version altered.