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

1.1 Product identifier

Trade name / designation — **Liapor® Clay Powder**

Other means of identification — none

1.2 Relevant identified uses of the substance or mixture advised against

1.2.1 Relevant identified uses — Filler for different applications
Release agent for expanded glass

1.2.2 Uses advised against — unknown

1.3 Details of the supplier of the data sheet

Supplier/Manufacturer — Liapor GmbH & Co. KG
Industriestraße 2
D-91352 Hallerndorf-Pautzfeld

Information contact — +49 95 45 4 48-0

E-Mail (competent person) — info@liapor.com

1.4 Emergency Telefone Number — +49 (0)30 30686 790

2. Hazards Identification

2.1 Classification according to Regulation (EC) No 12/2008 [CLP/GHS] — none

2.1.1 Classification according to 67/548/EEC or 1999/45/EC — none

2.1.2 Additional information
No information available for acute dermal or inhalative toxicity

2.2 Labelling elements — none

Not classified as PBT or vPvB.

2.3 Supplemental hazard information (EU):

Avoid dust emission, respect max. exposure limit, see chapter 8.1
Not classified in PBT or vPvB.
Mixture contains crystalline quartz.
Respirable dust from this product, if inhaled repeatedly or over a long period, could be a health hazard for the lungs (silicosis). Respirable quartz dust < 10 % STOT RE; 2 H 373

(Full text of R-, H- and EUH-phrases: see section 16.)

3. Composition /Information on Ingredients

3.1 Substances — none

3.2 Mixtures

Composition of clay powder:

Sheet silicates	> 55 %	
Quartz	< 25 %	
Quartz fine dust	< 2 %	R 48, H 373
Calcite, Dolomite	< 8 %	
Hematite	< 5 %	
Rutile	< 2 %	

3.3 Registration Numbers

Name	CAS-Number	EINECS-Number	EU Classification	Content
Natural Clay	9999999-99-4	310-127-6	Nicht klassifiziert	> 90 %
Fe_2O_3	215-168-2	215-168-2	Nicht klassifiziert	< 10 %

4. First Aid Measures

4.1 Description of first aid measures

General information: Avoid dust formation.
Exposure to dust may lead to local and temporary irritation

- inhalation (dust): Remove victim to fresh air
- skin contact (dust): Remove dusty cloths, wash with soap and water
- eye contact (dust): Gently flush with plenty of water, remove contact lenses
- ingestion (unlikely exposition path)
  Flush mouth with water (do not swallow),
  drink subsequently water

5. Fire-Fighting Measures

5.1 Extinguishing media no restrictions

5.2 Special hazards arising from the substance or mixture none

5.3 Advice for fire-fighters
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental Release Measures

6.1 Personal precaution, protective equipment and emergency procedures

Protective equipment:
Safety shoes
Safety goggles class 3121 (EN388)
Safety gloves
Safety mask P2

6.2 Environmental precautions none

6.3 Methods and material for containment and cleaning up

Vacuum cleaner preferred, avoid dust formation

7. Handling and Storage

7.1 Protective measures

Aerosol and dust generation preventions
Avoid dust formation, dust deposit or dust inhalation.
Assure sufficient air flow through work place. Use exhaust system.

If dust is created, wear P2 mask, safety glasses and gloves.

Advice on general occupational hygiene
Do not eat, drink nor smoke on working area.
Wash hands after working.
Remove dust mask in workplace and keep contaminated cloths separate from clean cloths

7.2 Conditions for safe storage, including incompatibilities

Technical measures and storage conditions: Store in a dry place
Storage class: 10-13

7.3. Specific end uses no information available

8. Exposure controls / Personal Protection

8.1 Control parameters

8.1.1 Occupational exposure limits

This MSDS according to Article 32 specifies German regulation only.
For other countries: Contact your local authorities.

German Regulation:

General dust exposition limit

Specification:	TRGS 900 – workplace limitation
Values:	3 mg/m^3 respiratory fraction 10 mg/m^3 respirable fraction
Peak limit:	2 (II)
Time excess factor	Duration 15 min, Average; 4 times per shift; gap 1h
Monitoring procedures	dust measurement, IFA-workbook 6068

Quartz, respiratory fraction

Specification:	MAK: 0.15 mg/m^3
Comment:	exposure limit MAK: 0,15 mg/m³ for respiratory fraction
Control measures:	dust measurement, IFA-workbook 7284 and 6068

8.2.4 Measures related to consumer uses of the substances (as such or in mixtures)

Technical measures and application of suitable work procedures to avoid dust formation have priority over personal protection

9. Physical and Chemical Properties

9.1 Important health, safety and environmental information

9.1.1 Appearance

Physical state	solid
Colour	grey-brown powder
Odour	no specific odour

9.1.2 Safety relevant basic data

pH-value	(Eluate 100 g in 900 ml water)	7-9
Density	(EN 459-21)	1,0 g/cm³
Melting range		1200 - 1300 C

9.2 Physical hazards none

10. Stability and Reactivity

not applicable, mixture does not contain hazardous ingredients.

11. Toxicological Information

not applicable, no toxic effects known.

12. Ecological Information

not applicable, mixture does not contain hazardous ingredients.

13. Disposal Considerations

13.1 Waste treatment methods none

13.1.1 Waste codes / waste designation according to EWC /AVV

01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07

14. Transport Information

not classified as hazardous product.

15. Regulatory Information

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

15.1.1 EU regulations

Restrictions on use none

15.1.2 National regulations (Germany)

- Technische Regeln für Gefahrstoffe

TRGS 559 Mineralischer Staub (dust from minerals)

TRGS 900: Arbeitsplatzgrenzwert (workplace limits)

15.2 Chemical safty assessment none

16. Other Information

16.1 Indication of changes

This MSDS was completely reviewed according to EG 1907/2006, revised by EC 453/2010

16.2 Abbreviations

EC	**E**uropean **C**omunity
EN	European standard
IFA	Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (Institute for Occupational Safety and Health of the German Social Accident Insurance)
ISO	**I**nternational **S**tandards **O**rganization
MAK	**M**aximale **A**rbeitsplatz **K**onzentration (Maximum workplace concentration)
PBT	**P**ersistent, **B**iaccummulative**, T**oxic
TRGS	Technische Regeln für Gefahrstoffe (Germany) (Technical regulations on hazardous substances)
UN	**U**nited **N**ations
vPvB	**v**ery **P**ersistent and **v**ery **B**ioaccummulative

Relevant R-, H- and EUH-phrases (number and full text):

Quartz, respirable dust

< 10 % STOT RE 2 H 373 May cause damage to organs through prolonged or repeated exposure (silicosis).

Training advice The user is responsible for adequate information, instructions and tuition of personnel.