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1.	Identificatio company/ur	n of the substance/m ndertaking	ixture and of the			
1.1	Product identifier					
	Trade name / d	esignation	Liapor [®]			
		-	Liaperl [®]			
			Liaflor [®]			
			Liagua [®]			
			Liadrain [®]			
	Other means o	of identification	Expanded clay, crushed expanded clay, lightweight sar	nd		
1.2	Relevant ident	ified uses of the substan	ce or mixture advised against			
1.2.1	Relevant iden Liapor [®] Liaperl [®] Liaflor [®] Liaqua [®] Liadrain [®]	Insulating ingredients for embankment material crushed: lightweight sand Filter materials for waste Mineral substrates, hydro Filter materials for waste	gas, air and wastewater treatment, ponds, etc			
1.2.2	Uses advised	against	unknown			
1.3	Details of the	supplier of the data sheet				
	Supplier/Manuf	acturer	Liapor GmbH & Co. KG Industriestraße 2 D-91352 Hallerndorf-Pautzfeld			
	Information co	ontact	+49 95 45 4 48-0			
	E-Mail (compet	ent person)	info@liapor.com			
1.4	Emergency Te	lephone Number	+49 (0)30 30686 790			
2.	Hazards Ide	entification				
2.1	Classification	of the substance or mixtur	e			
	Regulation (EC) No 1272/2008 [CLP/GHS] none			
	No information	available for acute dermal	or inhalative toxicity			
2.2	Label element	S	none			
	Not classified a	s PBT or vPvB.				
2.3	Other hazards					
	Not classified ir Product contair Respirable dust health hazard fo	ns crystalline quartz. t from this product, if inhale	d repeatedly or over a long period, could be a pirable quartz dust < 10 % STOT RE; 2 H 373			



3.	Composition /Information on Ingredients						
3.1	Substances				none		
3.2	Mixtures, products						
	Composition		Alumo-Ferro, Cal Quartz	cium-silicates	> 80 % < 20 %		
3.3	Registration Numbers						
	Name	CAS-Number	EINECS-Number	EU Classification	Content		
	(Al, Fe, Ca)-Silikate	1302-76-7	none	Not classified	> 80 %		
	Quartz	14808-60-7	238-878-4	Not classified	< 20 %		
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 (dus - skin contact (dus - eye contact (dus - ingestion	Í) Re :) Ge (ur Flu	Remove victim to fresh air Remove dusty cloths, wash with soap and water Gently flush with plenty of water, remove contact lenses (unlikely exposition path) Flush mouth with water (do not swallow), drink subsequently water				
5.	Fire-Fighting N	leasures					
5.1	Extinguishing media no restrictions			estrictions			
5.2	Special hazards arising from the substance or mixture none			е			
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 equipme	ent (dust):	Safety shoes Safety goggles Safety gloves Safety mask F	s class 3121 (EN38 22	38)		
6.2	Environmental pr	ecautions	none				
6.3	Methods and material for containment and cleaning up						
			Mechanical pick up, avoid dust formation Dust: vacuum cleaning preferred				



7. Handling and Storage 7.1 Precautions for safe handling 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: Depending on application: Dry application, e.g. Liapor[®] for ready to use mortar Store in a dry place Storage class: 10-13 Moist application, e.g. Liaperl[®], Liadrain[®] Frost-free storage 7.3. Specific end uses Do not exceed 1.5 bar air pressure in pneumatic conveying to avoid excessive dust formation. 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
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Quartz, respiratory fractionSpecification:MAK: 0.15 mg/m³Comment:exposure limit MAK: 0,15 mg/m³ for respiratory fractionControl measures:dust measurement, IFA-workbook 7284 and 6068

8.2 Exposure controls

Technical measures and application of suitable work procedures to avoid dust formation have priority over personal protection (see 6.1)



9.	Physical and Ch	emical Properties				
9.1	Important health, safety and environmental information					
9.1.1	Appearance					
	Physical state		solid			
	Colour Odour			own to red granulate sific odour		
9.1.2	Safety relevant bas pH-value Grain density Bulk density Melting range	ic data (Eluate 100 g in 900 ml wat (EN 1097-1) (EN 1097-3)	0.4 – 1.	8 kg/dm³ 0 kg/dm³ 1300 C		
9.2	Physical hazards		none			
10.	Stability and Reactivity					
		not applicable, mixture	e does not contair	n hazardous ingredients.		
11.	Toxicological Information					
		not applicable, no toxic effects known.				
12.	Ecological Infor	mation				
		not applicable, mixture	e does not contair	hazardous ingredients.		
13.	Disposal Consid	lerations				
13.1	Waste treatment methods none			none		
13.1.1	Waste codes / waste designation according to EWC /AVV					
	10 12 99 wastes from manufacture of ceramic goods, bricks, tiles and construction products not otherwise specified					
14.	Transport Inform	nation				
		not classified as haza	rdous product			
15.	Regulatory Information					
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture			pecific for the substance		
	EU regulations Restrictions on use		none			
	National regulation		TRGS 559	Mineralischer Staub		
			TRGS 900:	(dust from minerals) Arbeitsplatzgrenzwert (workplace limits)		
15.2	Chemical safty ass	essment	none	、 , /		



16.

Other In	formation			
Indication	of changes			
Editorial co	orrections			
Abbreviat	ions			
EC EN IFA	European Comunity European standard Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (Institute for Occupational Safety and Health of the German Social Accident Insurance) International Standards Organization Maximale Arbeitsplatz Konzentration (Maximum workplace concentration) Persistent, Biaccummulative, Toxic Technische Regeln für Gefahrstoffe (Germany) (Technical regulations on hazardous substances)			
ISO MAK				
PBT TRGS				
UN vPvB	United Nations very Persistent and very Bioaccummulative			
Relevant I	H- and EUH-phrase	s (number a	nd full text):	
Quartz, res	pirable 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.	