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1.	Identification of the substance/mixture and of the company/undertaking				
1.1	Product iden	tifier			
	Trade name /	designation	Liapor [®] Liaperl [®] Liaflor [®] Liadrain [®]		
	Other means	of identification	Expanded clay, crushed expanded clay, lightweight sanc	t	
1.2	Relevant identified uses of the substance or mixture advised against				
1.2.1	Relevant identified usesLiapor®Insulating ingredients for lightweight construction materials, embankment material crushed: lightweight sand, road gritLiaperl®Filter materials for waste gas and wastewater treatment, ponds, etc.Liaflor®Mineral substrates, hydroponics, etc.Liadrain®Crushed material, e.g. vegetation substrates for landscaped roofing				
1.2.2	Uses advised	l against	unknown		
1.3	Details of the	supplier of the data she	et		
	Supplier/Manufacturer		Liapor GmbH & Co. KG Industriestraße 2 D-91352 Hallerndorf-Pautzfeld		
	Information o	ontact	+49 95 45 4 48-0		
	E-Mail (compe	etent person)	info@liapor.com		
1.4	Emergency T	Emergency Telephone Number+49 (0)30 30686 790			
2.	Hazards Id	entification			
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 ele	ments	none		
	Not classified	as PBT or vPvB.			
2.3	Supplementa	l hazard information (EU):		
	Avoid dust emission, respect max. exposure limit, see chapter 8.1 Not classified in PBT or vPvB. Product 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 1	6.)		



3.	Composition /Information on Ingredients					
3.1	Substances				none	
3.2	Mixtures, product	es, products				
	Composition		Alumo-Ferro, Cal Quartz	> 80 % < 20 %		
3.3	Registration Nur	nbers				
	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 Meas	ures				
4.1	Description of first aid measures					
	General information		void dust formation. xposure to dust may lead to local and temporary irritation			
	- inhalation (dus - skin contact (dus - eye contact (dust - ingestion	i) Re) Ge (un 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					
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 Rel	ease Meası	ires			
6.1	Personal precauti	on, protective	e equipment and e	mergency proced	ures	
	Protective equipme	ent (dust):	Safety shoes Safety goggles Safety gloves Safety mask F	s class 3121 (EN38 22	38)	
6.2	Environmental precautions		none			
6.3	Methods and mate	erial for conta	inment and cleani	ng up		
	Mechanical pick up, avo Dust: vacuum cleaning					



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 c				
7.2	Conditions for safe storage, including incompatibilities				
	Technical measures and st Depending on application:	orage conditions: 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: Values:	TRGS 900 – workplace limitation 3 mg/m ³ respiratory fraction 10 mg/m ³ respirable fraction 2 (II) Duration 15 min, Average; 4 times per shift; gap 1h dust measurement, IFA-workbook 6068			
	Peak limit: Time excess factor				
	Comment:	MAK: 0.15 mg/m ³ exposure limit MAK: 0,15 mg/m ³ for respiratory fraction 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				



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9.	Physical and Ch	nemical Properties		
9.1	Physical and Chemical Properties Important health, safety and environmental information			
9.1.1	Appearance			
	Physical state Colour Odour			own to red granulate ific odour
9.1.2 9.2	Safety relevant bas pH-value Grain density Bulk density Melting range	ic data (Eluate 100 g in 900 ml wate (EN 1097-1) (EN 1097-3)	0.4 – 1. 0.2 – 1. 1200 - 1	8 kg/dm³ 0 kg/dm³ 1300 C
9.2	Physical hazards		none	
10.	Stability and Re	activity		
	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.			hazardous ingredients.
13.	Disposal Considerations			
13.1	Waste treatment methods none			
13.1.1	Waste codes / waste designation according to EWC /AVV			
	10 12 99wastes from manufacture of ceramic goods, bricks, tiles and construction products not otherwise specified			
14.	Transport Inforr	nation		
	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 regulation - Technische Regeln		TRGS 559	Mineralischer Staub (dust from minerals)
			TRGS 900:	(dust from hinerals) Arbeitsplatzgrenzwert (workplace limits)
15.2	Chemical safty ass	essment	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				
	ECEuropean ComunityENEuropean standardIFAInstitut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicher (Institute for Occupational Safety and Health of the German Social AdISOInternational Standards OrganizationMAKMaximale Arbeitsplatz Konzentration (Maximum workplace concentration)PBTPersistent, Biaccummulative, ToxicTRGSTechnische Regeln für Gefahrstoffe (Germany) (Technical regulations on hazardous substances)UNUnited Nations vPvBvPvBvery Persistent and very Bioaccummulative			nd Health of the German Social Accident Insurance) on n) c c G (Germany) us substances)	
	Relevant R-, H- and EUH-phrases (number and full text): Quartz, respirable dust				
	< 10 % STOT RE 2 Training advice		H 373	May cause damage to organs through prolonged or repeated exposure (silicosis).	
			The user is responsible for adequate information, instructions and tuition of personnel.		