

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	Universal cement
Registration number	-
Synonyms	None.
Issue date	21-December-2018
Version number	01
Revision date	-
Supersedes date	-

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Industrial use.
Uses advised against	None known.

### 1.3. Details of the supplier of the safety data sheet

Company name	HASLE Refractories A/S
Address	Kanegaardsvej 1 3700 Roenne Denmark
Telephone	+45 56 95 18 00
Contact person	HASLE Product Manager
E-mail	hasle@hasle-refractories.com
Website	www.hasle-refractories.dk
1.4. Emergency telephone number	+45 56 95 18 00

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

#### Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information	None.
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2.3. Other hazards	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Mullite	10 - 30	1302-93-8 215-113-2	-	-	
<b>Classification:</b>	-				
Sodium Silicate (MR > 3.2)	10 - 20	1344-09-8 215-687-4	-	-	
<b>Classification:</b>	-				
Kaolinite	10 - 15	1318-74-7 215-286-4	-	-	
<b>Classification:</b>	-				
Amorphous Silica (glass)	5 - 10	7631-86-9 231-545-4	-	-	
<b>Classification:</b>	-				

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16. Components not listed are either non-hazardous or are below reportable limits.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed** Exposed individuals may experience eye tearing, redness, and discomfort.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.  
**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  
**Special fire fighting procedures** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up.  
**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Do not discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Scrape up the spilled material.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**6.4. Reference to other sections**

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)**

Industrial use.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits****Austria. MAK List Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	MAK	4 mg/m <sup>3</sup>	Inhalable fraction.

**Belgium. Exposure Limit Values. Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	10 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		0,07 mg/m <sup>3</sup>	Respirable fraction.
Kaolinite (CAS 1318-74-7)	TWA	2 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	3,5 mg/m <sup>3</sup>	Respirable fraction.
		2 mg/m <sup>3</sup>	

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	MAC	6 mg/m <sup>3</sup>	Total dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended. Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	

**Czech Republic. OELs. Government Decree 361 Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Dust.
Mullite (CAS 1302-93-8)	TWA	5 mg/m <sup>3</sup>	Dust.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001) Components**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	Respirable dust.
Kaolinite (CAS 1318-74-7)	TWA	2 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>	

**Finland. Workplace Exposure Limits**

Components	Type	Value
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	5 mg/m <sup>3</sup>
Kaolinite (CAS 1318-74-7)	TWA	2 mg/m <sup>3</sup>
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value	Form
Mullite (CAS 1302-93-8)	VME	5 mg/m <sup>3</sup>	Respirable fraction.
<b>Regulatory status:</b> Regulatory binding (VRC)		10 mg/m <sup>3</sup>	Inhalable fraction.
<b>Regulatory status:</b> Regulatory binding (VRC)			

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
Mullite (CAS 1302-93-8)	TWA	4 mg/m <sup>3</sup>	Inhalable dust.
		0,3 mg/m <sup>3</sup>	Respirable dust.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	AGW	4 mg/m <sup>3</sup>	Inhalable fraction.
Mullite (CAS 1302-93-8)	AGW	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Mullite (CAS 1302-93-8)	TWA	6 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total inhalable dust.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
Kaolinite (CAS 1318-74-7)	TWA	2 mg/m <sup>3</sup>
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Total inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.
Mullite (CAS 1302-93-8)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total inhalable dust.

**Italy. OELs**

Components	Type	Value	Form
Kaolinite (CAS 1318-74-7)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	1 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>	Dust.
		2 mg/m <sup>3</sup>	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

Components	Type	Value	
Kaolinite (CAS 1318-74-7)	TWA	1 mg/m3	
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TLV	1,5 mg/m3	Respirable dust.
Mullite (CAS 1302-93-8)	TLV	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

**Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	2 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Kaolinite (CAS 1318-74-7)	TWA	1 mg/m3	Respirable fraction.

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	0,3 mg/m3	
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	Respirable aerosol fraction
		2 mg/m3	Respirable fraction.
		10 mg/m3	Dust.
		10 mg/m3	Aerosol
		10 mg/m3	
		10 mg/m3	Total

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	Respirable aerosol fraction
		2 mg/m3	Respirable fraction.

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Mullite (CAS 1302-93-8)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value	Form
Kaolinite (CAS 1318-74-7)	TWA	1 mg/m3	Total dust.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Mullite (CAS 1302-93-8)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
Amorphous Silica (glass) (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.
Mullite (CAS 1302-93-8)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines** Follow standard monitoring procedures.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**Individual protection measures, such as personal protective equipment**

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** If contact is likely, safety glasses with side shields are recommended.

**Skin protection**

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state** Thick paste.

**Form** Paste.

**Colour** Grey.

**Odour** Odourless.

**Odour threshold** Not applicable.

**pH** Not applicable.

**Melting point/freezing point** > 1000 °C (> 1832 °F)

**Initial boiling point and boiling range** Not applicable.

**Flash point** Not applicable.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not applicable.

**Flammability limit - upper (%)** Not applicable.

**Vapour pressure** Not applicable.

**Vapour density** Not applicable.

<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.

## 9.2. Other information

<b>Density</b>	0,20 - 3,00 g/cm <sup>3</sup>
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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Chlorine. Fluorine.
<b>10.6. Hazardous decomposition products</b>	Carbon oxides. Aluminum oxides. Silicon oxides.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
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### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	Prolonged skin contact may cause irritation.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

<b>Symptoms</b>	Exposed individuals may experience eye tearing, redness, and discomfort.
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### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Not expected to be acutely toxic.
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Components	Species	Test Results
Amorphous Silica (glass) (CAS 7631-86-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
<b>Inhalation</b>		
<i>Dust</i>		
LC50	Rat	> 0,14 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 3300 mg/kg

<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.
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#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous Silica (glass) (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.
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<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.
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<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	No data available.
<b>Other information</b>	No other specific acute or chronic health impact noted.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>12.2. Persistence and degradability</b>	Not applicable to inorganic substances.
<b>12.3. Bioaccumulative potential</b>	The product is not expected to bioaccumulate.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

<b>ADR</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>RID</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>ADN</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>IATA</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>IMDG</b>	14.1. - 14.6.: Not regulated as dangerous goods.
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.



**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
Mullite (CAS 1302-93-8)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**  
Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### List of abbreviations

LD50: Lethal Dose, 50%.  
LC50: Lethal Concentration, 50%.

#### References

Registry of Toxic Effects of Chemical Substances (RTECS)

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any H-statements not written out in full under Sections 2 to 15

None.

#### Training information

Follow training instructions when handling this material.

#### Disclaimer

HASLE Refractories A/S cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.