

# Safety Data Sheet

## Oryza SIL 650

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 17/12/2019 Revision date: 23/09/2020 Supersedes version of: 17/12/2019 Version: 2.0

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

#### 1.1. Product identifier

Product name : Oryza SIL 650  
Type of product : Technical product

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

##### Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Insulation mat

##### Uses advised against

No additional information available

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

##### Supplier

Beerenberg AS  
Kokstaddalen 33  
P.O. Box 273 Slåtthaug  
N-5851 Bergen  
T 55 52 66 00  
[post@beerenberg.com](mailto:post@beerenberg.com) - [beerenberg.com](http://beerenberg.com)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Korea	구급차 (POISON CONTROL information)		7917-5545/6001 119/129	
Norway	Giftinformasjonen Helsedirektoratet (Directorate of Health and Social Affairs)	P.O. Box 7000, St. Olavs Plass 0130 Oslo	112/ +47 22 59 13 00 <a href="http://www.giftinfo.no">www.giftinfo.no</a>	(Open 24H)
Singapore	Drug & Poison Information Centre		+65 6423 9119 Ambulance Service: 995	
Thailand	Ramathibodi Poison Center Faculty of Medicine Ramathibodi Hospital	Mahidol University 10400 Bangkok	1367, Line ID poisrequest (national callers)	
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182 +44 191 2606180	Hours of operation: 24hrs

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

The product is defined as a article according to Article 3.3 of Regulation (EC) No. 1907/2006 (REACH), and classification and marking elements may therefore be omitted.

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification : Lungs may be affected by repeated or prolonged exposure to dust. Dust may cause painful eye irritation and tearing.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
silica, amorphous, crystalline-free	(CAS-No.) 112945-52-5 (EC-No.) 601-216-3 (REACH-no) N/A	30 – 60	Not classified
aluminium oxide (Al <sub>2</sub> O <sub>3</sub> )	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6 (REACH-no) 01-2119529248-35	5 – 10	Not classified

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Allow affected person to breathe fresh air. Allow the patient to rest.

First-aid measures after skin contact

: Rinse skin with water/shower. Wash contaminated clothing before reuse.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

: No specific first aid measures noted.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

: Dust from this product may cause irritation to the respiratory tract.

Symptoms/effects after skin contact

: Dust may cause mechanical irritation.

Symptoms/effects after eye contact

: Dust from this product may cause eye irritation. Dust may cause mechanical irritation.

Symptoms/effects after ingestion

: Ingestion is unlikely due to product's physical state.

Chronic symptoms

: Chronic inhalation of dust particles can cause lung infection, obstructed airways and fibrosis.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire. Carbon dioxide. Foam. Dry powder. Water.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Not flammable according to national regulations concerning flammable goods.

Explosion hazard

: No applicable. Will not cause dust explosion.

Hazardous decomposition products in case of fire

: Product is a super-insulator. Rolls of material will retain heat within internal layers that may be a source of ignition after the fire is extinguished. Keep hot material away from combustible materials and cool hot insulation with water.

#### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.

Protection during firefighting

: Do not enter fire area without proper personal protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures

: Wear appropriate personal protective equipment - see Section 8. Ensure adequate ventilation, especially in confined areas.

##### 6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

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### 6.1.2. For emergency responders

Protective equipment : Equip cleanup and emergency crew with proper protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Minimise generation of dust. Do not create a dust cloud by using a brush or compressed air. Dry sweeping is not recommended.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Provide sufficient ventilation for operations causing dust formation. Avoid handling that generates dust and spreading of dust to neighboring rooms. Do not breathe dust. Use engineering controls to keep exposures below the OEL or DNEL. Trimmed material should be promptly packed in disposal bags. Trims and offcuts may be reused in secondary applications, otherwise scrap material should be packed for disposal. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take precautionary measures against static discharge. Use grounded electrical/mechanical equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

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

Storage conditions : The storage place should be kept tidy and well organized, to avoid accumulation of dust. Store in dry protected location to prevent any moisture contact. Keep in original container. Keep in properly labeled containers.

Incompatible products : Do not store together with volatile chemicals as they may be adsorbed onto product.

Storage temperature : Store at ambient conditions.

### 7.3. Specific end use(s)

For professional use only.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

silica, amorphous, crystalline-free (112945-52-5)		
United Kingdom	Local name	Silica, amorphous
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> inhalable dust 2.4 mg/m <sup>3</sup> respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway	Local name	Amorf silisiumdioksid
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> Respirabelt støv
Norway	Regulatory reference	FOR-2020-04-06-695

aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)		
United Kingdom	Local name	Aluminium oxides
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway	Local name	Aluminiumoksid
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Norway	Merknader (NO)	1) Grenseverdien er fastsatt lik verdien for sjenerende støv.
Norway	Regulatory reference	FOR-2020-04-06-695

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### Exposure limit values for the other components

Glass wool			
United Kingdom	Local name	MMMF (Machine-made mineral fibre)	
United Kingdom	WEL TWA (ppm)	2 fibers/mL (except for refractory ceramic fibres and special purpose fibres)	
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> 3 (respirable)	
United Kingdom	Regulatory reference	EH40 Workplace exposure limits	
Norway	Local name	Glassfiber/polyester	
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Totalstøv	
Norway	Regulatory reference	FOR-2020-04-06-695	

### 8.2. Exposure controls

#### Appropriate engineering controls:

Do not breathe dust. Provide adequate ventilation to minimize dust concentrations. Provide eye wash bottle at the work site.

#### Hand protection:

Wear appropriate work gloves for protection against mechanical irritation. (STANDARD EN 420:2003 / EN 388:2003 / EN 388:2016). Use appropriate hand lotion to prevent defatting and cracking of skin. Wash hands and other exposed skin with mild soap and water.

#### Eye protection:

In case of dust production: protective goggles. STANDARD EN 166:2001

#### Skin and body protection:

In case of dust production: dustproof clothing

#### Respiratory protection:

Dust production: dust mask with filter type P3. STANDARD EN 149:2001 + A1:2009

#### Other information:

Do not eat, drink or smoke during use. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Wash at the end of each work shift and before eating, smoking and using the toilet.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid.
Colour	: Grey.
Odour	: None.
Odour threshold	: Not relevant.
pH	: Not relevant.
pH solution	: Not relevant..
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not determined.
Freezing point	: Not relevant.
Boiling point	: Not relevant.
Flash point	: Not relevant.
Critical temperature	: Not relevant.
Auto-ignition temperature	: Do not self ignite.
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not relevant.
Relative vapour density at 20 °C	: Not relevant.
Relative density	: Not relevant.
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not relevant.
Viscosity, dynamic	: No data available

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Explosive properties : Product is not explosive.  
Oxidising properties : Non flammable.  
Explosive limits : No data available

### 9.2. Other information

Additional information : None to our knowledge.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No incompatible groups noted.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

No decomposition if stored and used normally.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)  
Additional information : Does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice and that precautions are taken to avoid the inhalation of dust

silica, amorphous, crystalline-free (112945-52-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

aluminium oxide (Al2O3) (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified pH: Not relevant.
Additional information	: Dust from this product may cause skin irritation
Serious eye damage/irritation	: Not classified pH: Not relevant.
Additional information	: Dust from this product may cause eye irritation
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified
Additional information	: Dust may irritate throat and respiratory system and cause coughing.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LC50 fish 1	> 100 mg/l 96 h (Salmo trutta)
EC50 Daphnia 1	> 100 mg/l (48 hours - Daphnia magna)

#### 12.2. Persistence and degradability

Oryza SIL 650	
Persistence and degradability	Not readily biodegradable.

#### 12.3. Bioaccumulative potential

Oryza SIL 650	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

Oryza SIL 650	
Ecology - soil	Not relevant, due to the form of the product.

#### 12.5. Results of PBT and vPvB assessment

Oryza SIL 650	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

#### 12.6. Other adverse effects

Other adverse effects : None to our knowledge.

Additional information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 10 11 03 - waste glass-based fibrous materials  
17 09 00 - other construction and demolition wastes

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

Contains no substance on the REACH candidate list

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

SDS ID	: 304809
Data sources	: EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.
Other information	: None.