

# Safety Data Sheet

I-Mat 220 / 650

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 05.09.2019 Revision date: 05.09.2019 Version: 1.0

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

### 1.1. Product identifier

Product name : I-Mat 220 / 650  
Product code : 7019909000

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

#### Relevant identified uses

Use of the substance/mixture : Thermal Insulation material

#### Uses advised against

No additional information available

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

IFA Tech AS  
Forusbeen 80  
4033 Stavanger  
T 0047 51 81 06 02  
[office@ifatech.no](mailto:office@ifatech.no) - [www.ifatech.no](http://www.ifatech.no)

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Norway	Giftinformasjonen 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>	

## 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

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

EUH-statements : EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Other hazards not contributing to the classification : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

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

## 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]
Silicon Dioxide (SiO <sub>2</sub> ) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (NO)	(CAS-No.) 7631-86-9 (EC-No.) 231-545-4 (REACH-no) N/A	> 62	Not classified
Calcium oxide substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (NO)	(CAS-No.) 1305-78-8 (EC-No.) 215-138-9 (REACH-no) 01-2119475325-36	> 16	Not classified
aluminium oxide substance with national workplace exposure limit(s) (NO)	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6 (REACH-no) 01-2119529248-35	> 9,6	Not classified
Magnesium oxide substance with national workplace exposure limit(s) (NO)	(CAS-No.) 1309-48-4 (EC-No.) 215-171-9 (REACH-no) N/A	< 1,5	Not classified

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Potassium monoxide	(CAS-No.) 12136-45-7 (EC-No.) 235-227-6 (REACH-no) N/A	< 0,6	Not classified
Disodium oxide	(CAS-No.) 1313-59-3 (EC-No.) 215-208-9	< 0,6	Not classified
ironoxide	(CAS-No.) 1309-37-1 (EC-No.) 215-168-2 (REACH-no) 01-2119457614-35	< 0,3	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	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

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

No additional information available

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

Fire hazard	: Non flammable.
Explosion hazard	: Product is not explosive.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. 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	: Avoid dust formation. Do not breathe dust.
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##### 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.
Emergency procedures	: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up	: Sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.
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#### 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust.

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

Storage conditions : Keep container closed when not in use. Keep cool. Store in a dry place. Store in a well-ventilated place.

Incompatible products : Strong bases. Strong acids.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Silicon Dioxide (SiO <sub>2</sub> ) (7631-86-9)		
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-2018-08-21-1255

aluminium oxide (1344-28-1)		
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-2018-08-21-1255

Calcium oxide (1305-78-8)		
Norway	Local name	Kalsiumoksid
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Respirabelt støv
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet); S (Korttidsverdi er en verdi for gjennomsnittskonsentrasjonen av et kjemisk stoff i pustesonen til en arbeidstaker som ikke skal overskrides i en fastsatt referanseperiode. Referanseperioden er 15 minutter)
Norway	Regulatory reference	FOR-2018-08-21-1255

Magnesium oxide (1309-48-4)		
Norway	Local name	Magnesiumoksid
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-2018-08-21-1255

ironoxide (1309-37-1)		
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Norway	Regulatory reference	FOR-2018-08-21-1255

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Not required

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## Eye protection:

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

## Respiratory protection:

Dust production: dust mask with filter type P3. Standard EN 143.

## Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Particles size : 0,5-1 mm. Specific Surface Area: 800-960 m2/g.
Colour	: White. Black.
Odour	: Odourless.
Odour threshold	: Not relevant.
pH	: Not relevant.
Relative evaporation rate (butylacetate=1)	: Not relevant.
Melting point	: Not determined.
Freezing point	: Not determined.
Boiling point	: Not relevant.
Flash point	: Not relevant.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not determined.
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.
Log Pow	: Not determined.
Viscosity, kinematic	: Not relevant.
Viscosity, dynamic	: Not relevant.
Explosive properties	: Not explosive.
Oxidising properties	: Non flammable.
Explosive limits	: Not relevant.

### 9.2. Other information

Other properties : Porosity: >90%. Aperture: 20-60mm.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

None to our knowledge.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

None to our knowledge.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: Not relevant.
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified pH: Not relevant.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

I-Mat 220 / 650	
Log Pow	Not determined.
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

I-Mat 220 / 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

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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Waste treatment methods : Do not discharge into drains.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 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

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## SECTION 16: Other information

SDS ID : 304574

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.

### Full text of H- and EUH-statements:

EUH210

Safety data sheet available on request.