

Safety Data Sheet

According to Regulation(EC) No. 453/2010
Issue Date : 2012-12-14

SDS1212120002
Version:1.0

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

1.1. Product identifier

Trade name:	Ceramic Backing
Proper shipping name:	None
Other means of identification:	No data available

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

1.2.1. Relevant identified uses

No data available.

1.2.2. Uses advised against

Advice against other uses

1.3. Details of the supplier of the safety data sheet

Supplier:	Utenlansk produsent
Address:	
Telephone:	
E-mail:	

importer:	TEMA Norge Import AS
Address:	Skvadronveien 19, 4050 Sola
Telephone:	+47 48 12 13 30
Email:	tnipost@tema-norge.no

1.4. Emergency telephone number

Country	Advisory body	Address	Emergency number
Norway	Giftsentralen		+47 22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Other adverse physicochemical, human health and environmental effects

No data available.

2.2. Label elements

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

Not applicable.

Labelling according to Directive 1999/45/EC[DPD]

Not applicable.

2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DSD
Silicon Dioxide	7631-86-9	231-545-4	-	-	61.8	Not classified	Not classified
Aluminium Oxide	1344-28-1	215-691-6	-	-	24.03	Not classified	Not classified
Water	7732-18-5	231-791-2	-	-	8.34	Not classified	Not classified
Dipotassim Oxide	12136-45-7	235-227-6	-	-	2.38	Not classified	Not classified

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Name	CAS No.	EC No.	Index No.	REACH No.	% wt/wt	Classification according to CLP	Classification according to DSD
Magnesium Oxide	1309-48-4	215-171-9	-	-	1.17	Not classified	Not classified
Disodium Oxide	1313-59-3	215-208-9	-	-	0.97	Not classified	Not classified
Calcium Oxide	1305-78-8	215-138-9	-	-	0.68	Skin Irritation 2, H315; Eye Damage 1, H318; STOT Single Exp. 3, H335	Xi; R38; Xi; R41; Xi; R37
Diiron Trioxide	1309-37-1	215-168-2	-	-	0.63	Not classified	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

Skin contact: Get medical attention if irritation occurs.

Eye contact: Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

Ingestion: Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

Advice for the doctor: Symptomatic treatment.

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

No reliable data available.

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

No reliable data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Dry chemical powder.

Carbon dioxide.

BCF(Where regulations permit)

5.2. Special hazards arising from the substance or mixture

Fire/explosion hazard: No data available.

Main combustion gas: No data available.

5.3. Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Wear suitable protective equipment.

6.1.2. For emergency responders

Remove ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Dispose according to local or international regulations.

6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled solid in suitable container for recovery or disposal, avoid raising dust.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container: No data available. Check all containers are clearly labelled and free from leaks.

Storage incompatibility: No data available.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silicon Dioxide CAS No.: 7631-86-9

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	-	2 (1)	-	-
Austria	-	4 inhalable aerosol	-	-
Belgium	-	10	-	-
Canada - Ontario	-	10	-	-
Canada - Québec	-	6	-	-
Denmark	-	2 inhalable aerosol	-	4 inhalable aerosol
Germany (AGS)	-	4 inhalable aerosol	-	-
Germany (DFG)	-	4 inhalable aerosol	-	-
Latvia	-	1	-	-
New Zealand	-	1	-	-
Singapore	-	10	-	-
South Korea	-	10	-	-
Switzerland	-	4 inhalable aerosol	-	-
USA - OSHA	-	80/ % silica total dust	-	-
United Kingdom	-	6 inhalable aerosol	-	-
Remarks				
Australia	(1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.			

Aluminium Oxide CAS No.: 1344-28-1

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	-	10 (1)	-	-
Austria	-	5 respirable aerosol	-	10 respirable aerosol
Canada - Québec	-	10	-	-
Denmark	-	5 inhalable aerosol	-	10 inhalable aerosol
France	-	10 respirable aerosol	-	-
Germany (DFG)	-	4 inhalable aerosol	-	-
Hungary	-	6 respirable aerosol	-	-
Latvia	-	6	-	-
New Zealand	-	10 (1)	-	-
Poland	-	2,5 (fume, total dust)	-	16

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Singapore	-	10	-	-
South Korea	-	10	-	-
Spain	-	10 inhalable aerosol	-	-
Sweden	-	5 inhalable aerosol	-	-
Switzerland	-	3 respirable aerosol	-	-
USA - OSHA	-	15 total dust	-	-
United Kingdom	-	10 inhalable aerosol	-	-
Remarks				
Australia	(1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.			
Denmark	Calculated as AI			
New Zealand	(1) the value vor inhalable dust containing no asbestos and less than 1% free silica			
Poland	Aluminium trioxide as AI fume, total dust fume; respirable dust			

Calcium Oxide CAS No.: 1305-78-8

	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Australia	-	2	-	-
Austria	-	2 inhalable aerosol	-	4 inhalable aerosol
Belgium	-	2	-	-
Canada - Ontario	-	2	-	-
Canada - Québec	-	2	-	-
Denmark	-	2	-	4
France	-	2	-	-
Hungary	-	5	-	5
Latvia	-	5	-	-
New Zealand	-	2	-	-
Poland	-	2	-	6
Singapore	-	2	-	-
South Korea	-	2	-	-
Spain	-	5	-	-
Sweden	-	1	-	2,5 (1)
Switzerland	-	2 inhalable aerosol	-	2 inhalable aerosol
USA - NIOSH	-	2	-	-
USA - OSHA	-	5	-	-
United Kingdom	-	2	-	-
Remarks				
Sweden	Inhalable dust (1) Short-term value, 15 minutes average value			

8.2. Exposure controls

Appropriate engineering controls Use: process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

General Personal Protection: Safety goggles or face shield, protective chemical resistant gloves, protective clothing.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	No data available
Odour:	No data available
Odour threshold:	No data available
Molecular Weight:	Not applicable
Molecular Formula:	Not applicable
pH:	No data available
Melting point:	No data available
Boiling point:	Not applicable
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability:	No data available
Explosive limits:	No data available
Vapour pressure:	Not applicable
Relative density:	No data available
Solubility(ies):	No data available
Specific Gravity(Water=1) :	No data available
Surface tension:	No data available
Water Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Viscosity:	Not applicable
Explosive properties:	No data available
Oxidising properties:	No data available

9.2. Other information

No additional data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 7.2

10.2. Chemical stability

Stable under normal condition.

10.3. Possibility of hazardous reactions

See section 7.2

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

See section 7.2

10.6. Hazardous decomposition products

Thermal decomposition products: No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:	Silicon Dioxide CAS No.:7631-86-9: LD50(rat, oral) > 5000 mg/kg bw (OECD Guideline 401) LC50(rat, inhalation, 4h) > 58.8 mg/L air (nominal) (OECD Guideline 403) Aluminium Oxide CAS No.:1344-28-1 LD50(rat, oral) > 10000 mg/kg bw (OECD Guideline 401) LC50(rat, inhalation, 4h) > 2.3 mg/L air (OECD Guideline 403) Calcium Oxide CAS No.:1305-78-8: LD50(rat, oral) > 2000 mg/kg bw (OECD Guideline 425)
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Skin corrosion/irritation:	Silicon Dioxide CAS No.:7631-86-9: Not irritating (OECD Guideline 404) Aluminium Oxide CAS No.:1344-28-1 Not irritating (OECD Guideline 404) Calcium Oxide CAS No.:1305-78-8: Not irritating (OECD Guideline 404)
Serious eye damage/irritation:	Silicon Dioxide CAS No.:7631-86-9: Not irritating (OECD Guideline 405) Aluminium Oxide CAS No.:1344-28-1 Not irritating (FDA of the United States (Fed. Reg. 28 (119), 5582, 1963) Draize and Kelly (Drug Cosmet. Industr. 71 (1952) 36)) Calcium Oxide CAS No.:1305-78-8: Irritating (OECD Guideline 405)
Respiratory or skin sensitisation:	Skin sensitisation: Aluminium Oxide CAS No.:1344-28-1: Not sensitising
Germ cell mutagenicity:	Silicon Dioxide CAS No.:7631-86-9: Negative (OECD Guideline 473) Negative (mammalian cell gene mutation assay: ex-vivo/in-vitro HPRT assay) Calcium Oxide CAS No.:1305-78-8: Negative (OECD Guideline 471)
Carcinogenicity:	Silicon Dioxide CAS No.:7631-86-9: No effect (OECD Guideline 453)
Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	Silicon Dioxide CAS No.:7631-86-9: Oral :NOEL highest dose(male): 7950 mg/kg bw/day (nominal) (OECD Guideline 408) NOEL highest dose(female): 8980 mg/kg bw/day (nominal) (OECD Guideline 408) Inhalation: NOAEC: 1.3 mg/m ³ air (analytical) (OECD Guideline 413) LOAEC: 5.9 mg/m ³ air (analytical) (OECD Guideline 413) NOEC < 1.3 mg/m ³ air (analytical) (OECD Guideline 413) Aluminium Oxide CAS No.:1344-28-1 Inhalation: NOAEC Al ₂ O ₃ dust: 70 mg/m ³ air (OECD Guideline 413)
Aspiration hazard:	No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute (short-term) toxicity:

Fish:

Silicon Dioxide CAS No.:7631-86-9:
LL0(Danio rerio, 96 h):10000 mg/L (OECD Guideline 203)

Aquatic invertebrates:

Silicon Dioxide CAS No.:7631-86-9:
EL50(Daphnia magna, 24h)>1000 mg/L (OECD Guideline 202)

Chronic (long-term) toxicity:

No data available

12.2. Persistence and degradability

Abiotic Degradation: No data available

Physical- and photo-chemical elimination: No data available

Biodegradation: No data available

12.3. Bioaccumulative potential

Partition coefficient n-octanol /water (log Kow): No data available

Bioconcentration factor (BCF): No data available

12.4. Mobility in soil

Known or predicted distribution to environmental compartments: No data available

Surface tension: No data available

Adsorption/Desorption: No data available

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: Observe specific national regulation.

Contaminated packaging: Contaminated, empty containers must be disposed of as chemical waste.

SECTION 14: Transport information

Land transport (ADR / RID / GGVSE)

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping name	None	14.5 Environmental hazard	None	
14.3 Transport hazard class(es)	None	14.6 Special precautions for user	Hazard identification (Kemler)	None
			Classification Code	None
			Hazard Label	None
			Special provisions	None
		Add limited quantity	None	

Air transport (ICAO-IATA / DGR)

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping name	None	14.5 Environmental hazard	None	
14.3 Transport hazard class(es)	None	14.6 Special precautions for user	Special provisions	None
			Cargo Only Packing Instructions	None
			Cargo Only Maximum Qty / Pack	None
			Passenger and Cargo Packing Instructions	None
			Passenger and Cargo Maximum Qty / Pack	None
			Passenger and Cargo Limited Quantity Packing Instructions	None
		Passenger and Cargo Maximum Qty / Pack	None	

Sea transport (IMDG-Code / GGVSee)

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping name	None	14.5 Environmental hazard	None	
14.3 Transport hazard class(es)	None	14.6 Special precautions for user	EMS number	None
			Special provisions	None
			Limited Quantities	None

Inland waterways transport (ADNR / River Rhine)

14.1 UN number	None	14.4 Packing group	None	
14.2 UN proper shipping name	None	14.5 Environmental hazard	None	
14.3 Transport hazard class(es)	None	14.6 Special precautions for user	Classification code	None
			Limited quantity	None
			Equipment required	None
			Fire cones number	None

14.7. Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - 67/548/EEC, 1999/45/EC, Regulation (EC) No 1272/2008, Regulation (EC) No. 453/2010; Regulation (EC) No 1907/2006, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC and 1999/13/EC.

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15.1.2. International/National regulations

No data available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

16.1 Indication of changes

No data available

16.2 Key literature references and sources for data

- ESIS (European chemical Substances Information System), <http://esis.jrc.ec.europa.eu/>

- REACH registered chemicals, http://echa.europa.eu/chem_data_en.asp

- IFA GESTIS - International limit values for chemical agents - occupational exposure limits (OELs), http://www.dguv.de/ifa/en/gestis/limit_values/index.jsp

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.