

# Safety Data Sheet

according to COMMISSION REGULATION (EU) No 453/2010

according to Regulation (EC) No 1907/2006 (REACH) with it's amendment Regulation (EU) 2015/830

Trade name: **Dicalite® 341, Speedplus, 375, Speedex, 2500, 4200, 4500, 5000, 6000, and 7000.**

Product. No:

Version: 1.1 / EN

Print date: 26 April 2017

Specification No:

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Revision date: 17/06/2013

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## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

#### Substance

**Substance name: Kieselguhr soda ash flux calcined**

#### INDEX No:

Not applicable

#### ID No of the C & L inventory:

Not available yet

#### Authorisation No:

Not available yet

#### EC No:

272-489-0

#### REACH No:

01-2119488518-22-0006

#### CAS No:

68855-54-9

### 1.2 Relevant identified uses of the substance and uses advised against

#### Use of the substance / preparation:

Fillers, Processing aid, not otherwise listed, filtration material, Laboratory chemicals, pH-regulating agents, Plating agents and metal surface treating agents, Solvents, filter-aid, functional filler, functional additive.

#### 1.2.1 Relevant identified uses

Industrial, professional and private use

#### 1.2.2 Uses advised against

None

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

### Supplier:

(manufacturer ( ) / importer ( ) / only representative (X) / downstream user ( ) / distributor ( ) )

Dicalite Trading nv  
Scheepzatestraat 100  
B-9000 Gent

Tel.: +32-9 250 95 50  
Fax: +32-9 250 95 59  
e-mail: sales@dicalite-europe.com

**Information contact:** Tim Neyt  
Tel.: +32-9 250 95 63

**1.4 Emergency Telephone Number:** +32-9 250 95 50 or +32-473 54 06 53

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance

**2.1.1** Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

**Kieselguhr, soda ash flux-calcined (respirable cristobalite fraction < 1% w/w)**

This substance is not classified as hazardous according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

**2.1.2** Classification according to Directive 67/548/EEC

**Kieselguhr, soda ash flux-calcined (respirable cristobalite fraction < 1% w/w)**

This substance is not classified as hazardous according to Directive 67/548 EEC

### 2.2 Label elements

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

**Kieselguhr, soda ash flux-calcined (respirable cristobalite fraction < 1% w/w)**

No labelling required

### 2.3 Other hazards

No special remarkable hazards.

Please observe the information given in this safety data sheet.

Depending on the type of handling and use (eg grinding, drying), airborne respirable crystalline silica may be generated.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Substance name:** Kieselguhr soda ash flux calcined

**CAS No:** 68855-54-9

**EC No:** 272-489-0

**REACH No:** 01-2119488518-22-0006

**Purity:** 100%

**Synonyms:** Diatomaceous earth soda ash flux calcined

**Stabilisers:** None

**Hazard impurities:** None

**Additional information:** None

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General notes:**

No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply.

**Following inhalation:**

Move patient from contaminated area to fresh air. In case of persistent problems consult a physician. If dust inhalation is severe move operator to fresh air.

**Following skin contact:**

Wash the skin with soap and water.

**Following eye contact:**

Wash immediately, abundantly and thoroughly with water. If irritation persists, consult a physician

**Following ingestion:**

Rinse mouth with plenty of water. Do not induce vomiting.

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## 6.4 Reference to other sections

Refer to sections 8 and 13

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures:

Avoid dust formation and dust accumulation in enclosed space.

Use personal protective equipment when handling the substance.

#### Advice on general occupational hygiene:

Do not to eat, drink and smoke in work areas.

Wash hands after use.

Remove contaminated clothing and protective equipment before entering eating areas.

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

Store in a dry place protected from moisture. Inspect all shipments upon arrival. Powder spills should be removed by vacuum cleaning or wet sweeping. Avoid dry sweeping if possible.

### 7.3 Specific end uses

Worse case exposure scenarios for humans and the environment are attached in Annex I of this safety data sheet.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring

##### 8.1.1.1 Occupational exposure limits

<b>Substance: Quartz</b> <b>CAS No: 14808-60-7</b>	
Country of origin	Occupational exposure limit value
Belgium, Denmark, US, France, Portugal, Italy, Sweden, Norway, Greece	0.10 (RD)
Netherlands	0.075 (RD)
Germany, Switzerland, Austria	0.15 (FD)
Finland	0.20 (FD)
Bulgaria	0.07
CIS	1.0
Czech	0.5

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Slovakia	1
Ireland	0.40 (RD)
United Kingdom	0.30 (RD)

RD: Respirable dust

FD: Fine dust

Substance: Cristobalite CAS No: 14464-46-1	
Country of origin	Occupational exposure limit value
Belgium, Denmark, US, France, Portugal, Italy, Sweden, Norway, Greece	0.05 (RD)
Netherlands	0.075 (RD)
Germany, Switzerland, Austria	0.15 (FD)
Finland	0.10 (FD)
Bulgaria	0.07
CIS	1.0
Czech	0.5
Slovakia	1
Ireland	0.40 (RD)
United Kingdom	0.30 (RD)

RD: Respirable dust

FD: Fine dust

Biological limit values: None

## 8.1.2 Recommended monitoring procedures

None

## 8.1.3 Occupational exposure limits and/or biological limits for air contaminants

Not applicable

## 8.1.4 Additional exposure limits under the conditions of use

### DNEL/DMEL

Exposure route	Exposure pattern	DNEL (workers)
Inhalation	Long term systemic	0.33 mg/m <sup>3</sup>

Exposure route	Exposure pattern	DNEL (general population)
Inhalation	Long term systemic	0.08 mg/m <sup>3</sup>

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Oral	Long term systemic	3.5 mg/kg/bw/day
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## **PNECS:**

Compartment	PNEC	Remarks
Aquatic (surface water)	n/a	LC50 values for fish, daphnia and algae study >100% v/v saturated solution (ie greater than the maximum solubility of the substance) .
STP micro-organisms	100	NOAEL value AF = 100
Terrestrial	n/a	Naturally occurring inert substance
Sediment	n/a	Naturally occurring inert substance

## **8.2 Exposure controls**

Refer to exposure scenarios in Annex I and Section 7.

### **8.2.1 Appropriate engineering controls**

Refer to the engineering controls discussed in the exposure scenarios in Annex I.

### **8.2.2 Individual protection measures such as personal protective equipment**

**Respiratory protection:** If dust is raised a respirator is recommended

**Hand protection:** Wear suitable hand protection depending on nature of the task.

**Eye protection:** Use safety goggles.

**Skin and body protection:** Wear suitable work clothing

### **8.2.3 Environmental exposure controls**

Dispose of waste in accordance with local and national regulations.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance**

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**Physical state:** Solid  
**Colour:** White to beige  
**Odour:** Odourless

	<b>Value</b>	<b>Method</b>	<b>Remark</b>
<b>pH (20 °C):</b>	7-9		
<b>Melting point/range (°C):</b>	> 450°C	EU Method A1	-
<b>Boiling point/range (°C):</b>	Not applicable based on melting point		
<b>Flash point (°C):</b>	Not applicable for inorganic substances		
<b>Flammability (auto-ignition temperature):</b>	Not flammable	Method N1 (flammability)  Method N4 (autoflammability)	
<b>Upper/ lower flammability or explosive limits:</b>	Not applicable		-
<b>Vapour pressure (Pa):</b>	Not applicable based on melting point		
<b>Relative density:</b>	2.36	OECD 109	-
<b>Water solubility (20°C in g/L):</b>	Insoluble	EU Method A6	-
<b>Partition coefficient n-Octanol/Water (log Po/w):</b>	Not applicable		Inorganic
<b>Viscosity (cps):</b>	Not applicable for solids		-
<b>Decomposition temperature:</b>	Not applicable		-
<b>Explosive properties:</b>	No explosive properties predicted from the structure		Prediction
<b>Oxidising properties:</b>	No oxidising properties predicted from the structure		Prediction

## 9.2 Other information

None

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

May react violently with Hydrofluoric acid.





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A 90 day repeated dose inhalation study has been proposed.

Calcined diatomaceous earth (Kieselgur) contains crystalline silica, which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-aramid Fibrils"), the International Agency for Research on cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans". In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Crystalline silica has also been classified by the German MAK Commission as a human carcinogen (Category A1).

In case of eye contact:

Kieselguhr soda ash flux calcined is not an eye irritant

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic toxicity	Effect dose	Exposure time	Species	Method	Remark
Acute fish toxicity	>100% v/v saturated solution.	96 h	<i>Oncorhynchus mykiss</i>	OECD 203	Exceeds maximum solubility of substance
Acute daphnia toxicity	>100% v/v saturated solution.	48 h	<i>Daphnia magna</i>	OECD 202	Exceeds maximum solubility of substance
Acute algae toxicity	>100% v/v saturated solution.	72 h	<i>Desmodesmus subspicatus</i>	OECD 201	Exceeds maximum solubility of substance .
Toxicity to STP microorganisms	> 1000 mg/L	3 h	Activated sludge	OECD 209	Harmless to STP microorganisms

### 12.2 Persistence and degradability

**Abiotic Degradation:**

Not applicable. The substance is inorganic and does not undergo any abiotic degradation.

### 12.3 Bioaccumulative potential

Not applicable

### 12.4 Mobility in soil

Not applicable

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## 12.5 Results of PBT and vPvB assessment:

This substance does not meet the criteria for classification as PBT or vPvB.

## 12.6 Other adverse effects

None

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

May be disposed of in a non-hazardous sanitary landfill when not mixed with a hazardous substance.  
Dispose of in accordance with local regulations.

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## 14. TRANSPORT INFORMATION

Not classified as dangerous in terms of transport regulations

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## 15. REGULATORY INFORMATION

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

The following regulations / directives should be reviewed when handling products containing crystalline silica:

**Great Britain:** Control of Substances Hazardous to Health, Regulations 1988, No 1857.

**Germany:** UBG 119 – Quartz-protection against mineral dusts injurious to health.

UBG 100 – Rule G.1.1 – Legislation concerning medical care.

Gefstoff 8.86 – specifies labeling requirements.

**France:** - Decree No. 50.1289 of October 16, 1950 modified by Decree No. 63.576 of June 11, 1963 establishes special medical preventive measures for occupational silicosis.

- Circular No. 11453 of July 19, 1982 establishes the levels accepted for concentrations in the air of work areas.

- Decree No. 87-200 of March 25, 1987 safety data sheets for hazardous substances.

- Code of Labour Article L 231-6 – Decree of October 10, 1983 modified by Decree of November 28, 1984 lists hazardous substances and establishes packing and labeling requirements.

**Spain:** Royal Decree of November 27, 1985 relating to the classification and labeling of dangerous substances.

**Italy:** Law No. 256 of May 29, 1974 Decree No. 927 of November 24, 1981 and No. 141 of February 20, 1988 on classification and labeling for warning of hazardous materials.

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is provided in Annex I.

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