

Safety Data Sheet

according to COMMISSION REGULATION (EU) No 453/2010

Trade name: Dicalite[®] 215, Superaid, UF, Speedflow, 231.

Product. No: Version: 1.1 / EN

Print date: 3 May 2016

Specification No: Page 1 of 12

Revision date: 17/06/2013

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

1.1 Product identifier

Substance

Substance name: Kieselguhr calcined

INDEX No:

Not applicable

ID No of the C & L inventory:

Not available yet

Authorisation No:

Not available yet

EC No:

293-303-4

REACH No:

Exempted according to Annex V, Article 2 §7(b).

CAS No:

91053-39-3

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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

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

Kieselguhr, 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, 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, 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 calcined

CAS No: 91053-39-3

EC No: 293-303-4

REACH No: Exempted according to Annex V, Article 2 §7(b)

Purity: 100%

Synonyms: Diatomaceous earth calcined

Stabilisers: None

Hazard impurities: None

Additional information: None

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.

4.2 Most important symptoms and effects, both acute and delayed

Breathing dust containing crystalline silica over a prolonged period of time may cause lung damage. Crystalline silica (Cristobalite) is a known cause of silicosis, a progressive, sometimes fatal lung disease.

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4.3 Indication of any immediate medical attention and special treatment needed

Not applicable.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

The product is not flammable. Fire prevention measures should be chosen according to the environment.

Unsuitable extinguishing media:

None

5.2 Special hazards arising from the substance

None

5.3 Advice for fire-fighters

In the event of a fire, wear self-contained breathing apparatus. The self contained breathing apparatus may be required due to other agents, but is not required due to potential Kieselguhr exposure.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment

Avoid breathing dust

Ensure adequate ventilation

Do not crush, avoid the formation and spread of dust in the air

6.2 Environmental precautions

Avoid generating airborne dust

Prevent product from entering drains

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust

Keep in suitable, closed containers for disposal

Broken bags should be taped over or covered with recuperage (slipover) bags

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

Not available.

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

Substance: Quartz CAS No: 14808-60-7	
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
Slovakia	1
Ireland	0.40 (RD)
United Kingdom	0.30 (RD)

RD: Respirable dust

FD: Fine dust

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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 ³

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

8.2.1 Appropriate engineering controls

Not available.

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

Physical state: Solid

Colour: Pink to beige

Odour: Odourless

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

10.4 Conditions to avoid

None

10.5 Incompatible materials

Hydrofluoric acid- products.

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10.6 Hazardous decomposition products

None

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Relevant hazard class	Effect dose	Species	Method	Remark
Acute oral toxicity	LD50 > 2000 mg/kg bw	Rat.	OECD 401	
Acute dermal toxicity	n/a			No dermal toxicity envisaged due to low potential for absorption
Acute inhalative toxicity	LC50 > 2.6 mg/L	Rat	OECD 403	Maximum attainable dose
Skin corrosion/irritation	n/a	Rabbit	OECD 404	Not irritating
Serious eye damage/irritation	n/a	Rabbit	OECD 405	Not irritating
Respiratory or skin sensitization	n/a	Guinea pig	OECD 429	Not a skin sensitizer
Germ cell mutagenicity	n/a	In vitro tests	OECD 471 OECD 473 OECD 476	Not mutagenic
Carcinogenicity	n/a			
Reproductive toxicity	n/a			No effect reported
STOT single exposure	n/a			No effect reported
STOT repeated exposure	n/a	n/a	n/a	STOT RE 1 (If RCS content >10%) STOT RE 2 (If RCS content >1% - < 10 %.)
Aspiration hazard	n/a			No aspiration hazard envisaged

Specific symptoms in animal studies (likely route of exposure):

In case of ingestion:

No acute or long term effects were seen in animal studies following oral exposure.

In case of skin contact:

No acute effects were seen in an animal study following acute dermal exposure.

Calcined kieselguhr is not a skin irritant.

In case of inhalation:

No acute effects were seen in an animal study following acute inhalation exposure.

A 90 day repeated dose inhalation study has been proposed.

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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 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

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

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16. OTHER INFORMATION

16.1 Indication of changes

Not applicable

16.2 Abbreviations and acronyms

AF =	Assessment factor
BCF =	Bioconcentration factor
CAS =	Chemical Abstracts Service
C & L	Classification and labelling
RCS =	Respirable crystalline silica
DNEL =	Derived no effect level
LC50 =	Median lethal concentration
LD50 =	Medial lethal dose
EC -	European Commission
NOAEL =	No observed adverse effect level
PBT	Persistent bioaccumulative toxic
PEC =	Predicted effect level
PNEC =	Predicted no effect level
SDS =	Safety data sheet
STOT =	Specific target organ toxicity
STP =	Sewage treatment plant
vPvB	Very persistent very bioaccumulative

16.3 Training advice

According to appropriate national legislation

Third party material

Insofar as materials not manufactured or supplied by Dicalite®, are used in conjunction with, or instead of Dicalite® materials, it is the responsibility of the customer himself to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Dicalite®, Kieselghur in conjunction with materials from another supplier.

16.4 Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.