

SAFETY DATA SHEET

Revision: 1.0 Date: 10.08.2018



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

Natural Diatomaceous Earth (Kieselguhr)
Celatom® AFA, FN-1, FN-2, FN-6, MN-2, MN-23, MN-3, MN-4, MN-4HT,
MN-47, MN-51, MN-53, MN-84

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Celatom® AFA, FN-1, FN-2, FN-6, MN-2, MN-23, MN-3, MN-4, MN-4HT, MN-47, MN-51, MN-53, MN-84
Trade names	Celatom® AFA, FN-1, FN-2, FN-6, MN-2, MN-23, MN-3, MN-4, MN-4HT, MN-47, MN-51, MN-53, MN-84
Chemical Name	Natural Diatomaceous Earth (Kieselguhr)
CAS No.	61790-53-2
EINECS No.	14808-60-7
REACH Registration No.	612-383-7
	238-878-4
	Not applicable.
1.2 Recommended use of the chemical and restrictions on use	
Identified Use(s)	The substance is used as a filter aid, a carrier, a silica source or as a functional additive for paint, plastics, rubber or other applications.
Uses Advised Against	
1.3 Details of the supplier of the safety data sheet	
Manufacturer	EP Minerals, LLC 9785 Gateway Drive Reno, Nevada 89521 USA
Telephone	+1-775-824-7600
Fax	+1-775-824-7601
E-Mail (competent person)	inquiry.minerals@epminerals.com
Importer	EP Minerals Europe GmbH & Co, KG Rehrhofer Weg 115 D-29633, Munster, Germany
Telephone	+49 51 92 98970
Fax	+49-51 92 989715
E-Mail (competent person)	EPME@epminerals.com
1.4 Emergency Phone No.	Europe: +49 51 92 98970 (08:00– 17:00 CET) Languages spoken: English, French and German USA: +1-775-824-7600 (08:00– 17:00 PST)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	This product contains quartz (fine fraction) at: < 1% Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Not classified as hazardous for supply/use.
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Celatom® AFA, FN-1, FN-2, FN-6, MN-2, MN-23, MN-3, MN-4, MN-4HT, MN-47, MN-51, MN-53, MN-84
Contains:	Natural Diatomaceous Earth, Kieselguhr (amorphous)

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(< 1% Crystalline Silica – Quartz (Respirable Dust))

Hazard Pictogram(s) None assigned.
Signal Word(s) None assigned.
Hazard Statement(s) None assigned.
Precautionary Statement(s) None assigned.

2.3 Other hazards None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.
Natural Diatomaceous Earth (Kieselguhr)	circa.100	61790-53-2	612-383-7
Contains: Quartz (Respirable Dust), <1 Fine Fraction Crystalline silica per SWeRF calculation	< 1	14808-60-7	238-878-4

3.2 Mixtures - Not applicable.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If irritation develops and persists, get medical attention. Blow nose to evacuate dust.
Skin Contact Remove clothing and wash thoroughly before use. Wash affected skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or persists.
Ingestion Rinse mouth. Give plenty of water to drink. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. May cause irritation to the respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically. There is no specific antidote. Remove person to fresh air and keep comfortable for breathing.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media Non-flammable. Extinguish with carbon dioxide, dry chemical, foam or

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waterspray. As appropriate for surrounding fire.

- Unsuitable extinguishing media
5.2 **Special hazards arising from the substance or mixture** None.
5.3 **Advice for fire-fighters** Non-flammable, Non-combustible, Not explosive.
Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Wear appropriate personal protective equipment, avoid direct contact. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.
- 6.2 **Environmental precautions** No special requirements.
- 6.3 **Methods and material for containment and cleaning up** Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal.
- 6.4 **Reference to other sections** See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section 16. Avoid generation of dust. In case of inadequate ventilation wear respiratory protection. Do not breathe dust. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
- 7.2 **Conditions for safe storage, including any incompatibilities** Atmospheric concentrations should be minimised and kept as low as reasonably practicable below the occupational exposure limit.
Storage life Stable under normal conditions. Store in a dry place.
Incompatible materials Keep away from: Hydrofluoric Acid
- 7.3 **Specific end use(s)** See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**
8.1.1 **Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Silica, Respirable Crystalline	-	-	0.1	-	-	WEL: Workplace Exposure Limit (UK HSE EH40)
Nuisance Dust	-	-	10	-	-	Inhalable Dust. WEL: Workplace Exposure Limit (UK HSE EH40)
Nuisance Dust	-	-	4	-	-	Respirable Dust. WEL: Workplace Exposure Limit (UK HSE EH40)

Note: For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority

- 8.1.2 **Biological limit value** Not applicable.
- 8.1.3 **PNECs and DNELs** Not applicable. A REACH chemical safety assessment has not been carried out.
- 8.2 **Exposure controls**
- 8.2.1 **Appropriate engineering controls** Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Avoid dust generation.

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8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Avoid dust generation. Do not breathe dust.

Eye/ face protection



Wear eye protection with side protection (EN166).

Skin protection



Use skin barrier cream before handling the product. Wear suitable gloves if prolonged skin contact is likely - Wear impervious gloves (EN374).

Respiratory protection



Atmospheric levels should be controlled in compliance with the occupational exposure limit. In case of inadequate ventilation wear respiratory protection. Recommended: Half-face mask (DIN EN 140), Filter type P2/P3 - efficiency of at least 90%

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid wind dispersal.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Buff to off white powder
Odour	Odourless
Odour threshold	Not available.
pH	6-8 (10% Suspension)
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Decomposes below boiling point at (°C): >1300°C
Flash point	Non-flammable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Non-flammable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	2.0 g/cm ³ (H ₂ O = 1)
Solubility(ies)	<2% Water Soluble in: Hydrofluoric Acid
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable
Decomposition Temperature	Not available.
Viscosity	Not applicable, Solid.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions.
10.4 Conditions to avoid	Avoid contact with: Hydrofluoric Acid. Do not leave in enclosed spaces when mixed with highly flammable material, as heat can build up over long periods of time and flammable material may eventually ignite.
10.5 Incompatible materials	Reacts violently with - Hydrofluoric Acid
10.6 Hazardous decomposition product(s)	No hazardous decomposition products known.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion

Inhalation

Skin Contact

Eye Contact

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

11.2 Other information

Based upon the available data, the classification criteria are not met.

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Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans (human carcinogen category 1). However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In 2009, in the Monographs 100 series, IARC confirmed its classification of Silica Dust, Crystalline, in the form of Quartz and Cristobalite (IARC Monographs, Volume 100C, 2012). In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003). So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Not classified as a Marine Pollutant.

12.2 Persistence and degradability

Not applicable.

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation. Some organisms accumulate Si(OH)₄

12.4 Mobility in soil

The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment

This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of empty containers and wastes safely. Dispose of contents in accordance with local, state or national legislation.

13.2 Additional Information

Packaging waste: Remove all packaging for recovery or disposal. Make sure

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that packaging is completely empty before recycling. Inform consumer about possible hazards of unclean empty packaging for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID / IMDG / ICAO/IATA
14.1 UN number	Not applicable.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Diatomaceous Earth , No special measures are required.
14.8 Additional Information	None.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or Restrictions On Use	None.
15.1.2 National regulations	
Germany	Water hazard class: Not classified
15.2 Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References: Existing Safety Data Sheet (SDS): Natural Diatomaceous Earth (Kieselguhr)

Training advice: Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations. A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	PBT: Persistent, Bioaccumulative and Toxic
vPvB	vPvT: very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development
SCOEL	The EU Scientific Committee on Occupational Exposure Limits
IARC	International Agency for Research on Cancer
SWeRF	Size-Weighted Respirable Fraction

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Annex to the extended Safety Data Sheet (eSDS)

Not applicable. A REACH chemical safety assessment has not been carried out.