

## FULCAT-22 F

Product code: 00000000000158440

Version

3.0 SDS\_REG\_UN

Revision Date:

18.11.2022

Date of last issue: 06.12.2019

Date of first issue: 14.06.2018

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : FULCAT-22 F

Type of Application (Use) : Catalyst

**Manufacturer or supplier's details**

Company : BYK Additives Ltd.

Address : Moorfield Road  
WA8 3AA Widnes

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

Emergency telephone number : Europe +44 1235 239670  
Middle East/Africa +44 1235 239671  
Americas +1 215 207 0061  
East/South East Asia +65 3158 1074  
(Local India: 000 800 100 7479)**2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Carcinogenicity : Category 1A

Specific target organ toxicity - repeated exposure : Category 2 (Lungs)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H303 + H313 May be harmful if swallowed or in contact with skin.  
H350 May cause cancer.  
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

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Precautionary statements

:

**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P312 Call a POISON CENTER/ doctor if you feel unwell.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture

: Substance

Chemical nature

: Acid leached phyllosilicate

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 1 - < 3

**4. FIRST AID MEASURES**

General advice

: Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled

: If unconscious, place in recovery position and seek medical advice.

If symptoms persist, call a physician.

If breathed in, move person into fresh air.

In case of skin contact

: Wash off with soap and water.

Get medical attention if irritation develops and persists.

If on clothes, remove clothes.

Wash contaminated clothing before re-use.

In case of eye contact

: Flush eyes with water as a precaution.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

: Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

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	Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Rinse mouth with water. If large quantities of this material are swallowed, call a physician immediately.
Most important symptoms and effects, both acute and delayed	: No symptoms known or expected. Irritating to eyes, respiratory system and skin.
Notes to physician	: Treat symptomatically.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO <sub>2</sub> )
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: The product itself does not burn. Material can be slippery when wet.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Keep people away from and upwind of spill/leak. Material can create slippery conditions. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	: Pick up and arrange disposal without creating dust. Use approved industrial vacuum cleaner for removal. High efficiency particulate air filter (HEPA filter) Clean-up methods - large spillage Knock down dust with water spray jet. Shovel into suitable container for disposal.

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After cleaning, flush away traces with water.  
Clean-up methods - small spillage  
Sweep up or vacuum up spillage and collect in suitable container for disposal.

Neutralize with chalk, alkali solution or ammonia.  
Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Avoid dust formation.  
Keep container tightly closed in a dry and well-ventilated place.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0,025 mg/m <sup>3</sup> (Silica)	ACGIH

- Engineering measures** : Ensure adequate ventilation.  
Maintain air concentrations below occupational exposure standards.  
Dust must be extracted directly at the point of origin.

**Personal protective equipment**

Hand protection

Remarks

Eye protection

Skin and body protection

Hygiene measures

- : Use protective skin cream before handling the product.
- : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.
- : Work uniform or laboratory coat.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	:	powder
Colour	:	beige
Odour	:	odourless
Odour Threshold	:	Not applicable
pH	:	3
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	1 g/cm <sup>3</sup> (20 °C)
Bulk density	:	1.000 kg/m <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	insoluble
Decomposition temperature	:	Not applicable
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Surface tension	:	No data available

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**10. STABILITY AND REACTIVITY**

Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	:	LD50(Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
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Acute inhalation toxicity : LC50(Rat): > 50 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50(Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation****Product:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

**Serious eye damage/eye irritation****Product:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

**Respiratory or skin sensitisation****Product:**

Test Type: Mouse Local Lymph Node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro

: Test Type: reverse mutation assay

Species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

: Test Type: Chromosome aberration test in vitro

Species: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

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: Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Test Type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

Test Type: Growth inhibition

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h

Test Type: Respiration inhibition

Method: OECD Test Guideline 209

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil****Product:**

Mobility : Remarks: Bentonite is almost insoluble and thus presents a low mobility in most soils

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

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**14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

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**16. OTHER INFORMATION****Further information**

Training advice : Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Other information : In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (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 June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in

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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)  
According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.