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1**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Commercial Product Name : TONSIL 414FF

Company : Süd-Chemie AG  
Business Unit Adsorbents and Additives  
Ostenriederstrasse 15  
85368 Moosburg

Telephone : +498761820  
Telefax : +49876182169

Contact Point : BBA-D +49 8761/82-320

Emergency telephone number : +49 (0)613284463 only for working place emergency (contact only in german or english)

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : natural Ca-bentonite, acid-activated

Components	CAS-No.	Symbol(s)	R-phrase(s)	Concentration
free crystalline silica *) in fine dust	14808-60-7			< 2,00 %
fine dust < 7.1 µm				< 5,00 %
breathable content of crystalline silica *) in whole product				< 0,10 %

(\* including quartz, cristobalite, tridymite)

**3. HAZARDS IDENTIFICATION**

Avoid inhalation and/or exceeding of occupational limit value.

**4. FIRST AID MEASURES**

General advice : none

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin contact : Wash off with soap and plenty of water.

Inhalation : Move to fresh air.

Ingestion : Rinse mouth.

Notes to physician

Treatment : none

**5. FIRE-FIGHTING MEASURES**

Specific hazards during fire : none

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fighting  
Special protective equipment for fire-fighters : none  
Suitable extinguishing media : The product itself does not burn.  
Use extinguishing measures appropriate to the environment.

Extinguishing media which must not be used for safety reasons : none

**6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions : none  
Methods for cleaning up : Take up uncontaminated material and pass on for further processing.  
Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.  
Additional advice : Avoid dust formation.

**7. HANDLING AND STORAGE****Handling**

Safe handling advice : Avoid formation of dust and aerosols.  
Advice on protection against fire and explosion : No special precautions required.

**Storage**

Requirements for storage areas and containers : Keep container tightly closed and dry.  
Advice on common storage : no restrictions

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Additional technical information on the plant : Local exhaust

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## Components with workplace control parameters

Components	CAS-No.	Value	Basis / Remarks
QUARTZ (alveolar content)*	14808-60-7	0,15 mg/m <sup>3</sup> 0,05 mg/m <sup>3</sup> 0,05 mg/m <sup>3</sup> 0,1 mg/m <sup>3</sup>	Germany TRGS 900 Limit Values TRK Data 02 2000 ACGIH Threshold Limit Values Note List 1999 NIOSH Pocket Guide to Chemical Hazards 06 1997 OSHA Table Z-1-A 1989
QUARTZ IN DUST	14808-60-7	0,15 mg/m <sup>3</sup> 0,05 mg/m <sup>3</sup> 0,05 mg/m <sup>3</sup> 0,1 mg/m <sup>3</sup>	Germany TRGS 900 Limit Values TRK Data 02 2000 ACGIH Threshold Limit Values Note List 1999 NIOSH Pocket Guide to Chemical Hazards 06 1997 OSHA Table Z-1-A 1989
limiting value of inert dust (alveolar content)		1,5 mg/m <sup>3</sup>	TRGS900 MAK
limiting value of inert dust		4 mg/m <sup>3</sup>	TRGS900 MAK

(\* including cristobalit and tridymit)

## Personal protective equipment

Respiratory protection	: In case of formation of dust: Dust-mask/filter P2
Hand protection	: In case of formation of dust: PVC or other plastic material gloves
Eye protection	: safety glasses
Skin and body protection	: none
Hygiene measures	: Wash off with warm water and soap.
Protective measures	: Prophylactic use of protective ointment (barrier cream) is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form	: powder
Colour	: white to grey
Odour	: none

## Other data

melting point	: n.a.
boiling point	: n.a.
Flash point	: n.a.
Ignition temperature	: n.a.
Autoignition temperature	: none
Upper explosion limit	: n.a.

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Lower explosion limit	:	n.a.
Vapour pressure	:	n.a.
Density	:	n.av.
Bulk density	:	608 g/l
Water solubility	:	insoluble
pH	:	5,2 - 7 at 100 g/l Method: Aqueous suspension
Oxidizing properties	:	Other data: none
Explosive properties	:	Remarks: none

**10. STABILITY AND REACTIVITY**

Hazardous reactions (Conditions to avoid)	:	None known
Hazardous reactions (Materials to avoid)	:	None known
Information about decomposition	:	No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Acute oral toxicity	:	LD50 rat Dose: > 5.000 mg/kg The product has not been tested in animal experiments. The toxicological data has been taken from products of similar composition.
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**Irritation, Sensitization, Other data Toxicology**

Eye irritation	:	Result: moderately irritating to mucous membranes.
Sensitization	:	Result: not sensitizing
Repeated dose toxicity	:	no data available
Human experience	:	Dust may render the skin dry and chappy. In the event of long-term excess of the TLV value and extended inhalation effect, fine dust containing quartz may cause silicosis. Due to dust raising, light irritation of eyes and/or mucous membranes is possible.

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1**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**Decomposition : Result: not biodegradable  
Product is of mineral origin.

Distribution to environmental compartments : no data available

**Ecotoxicity effects**Further information : no data available  
Ecotoxicity**13. DISPOSAL CONSIDERATIONS**

Product : Can be landfilled or incinerated, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Contact waste disposal services.

Contaminated packaging : Can be re-used after emptying and cleaning.

**14. TRANSPORT INFORMATION**

Land transport : Not classified as dangerous in the meaning of transport regulations.

Sea transport : Not classified as dangerous in the meaning of transport regulations.

Air transport : Not classified as dangerous in the meaning of transport regulations.

**15. REGULATORY INFORMATION**

General advice : The product does not need to be labelled in accordance with EC directives or respective national laws.

Hazardous components which must be listed on the label:

preparation : Not applicable

Other information : S22 - Do not breathe dust (recommendation)  
Follow the usual precautions required when handling chemicals.



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**16. OTHER INFORMATION**

Responsible for SDS: Environmental Protection Contact person: Dep.  
CEQ Tel.: 08761/82-654

The information presented herein is believed to be accurate, but is not warranted.

It does not represent any assurance of properties of the product.  
The specifications are to be drawn from the corresponding leaflet.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

**Legend**

n.a.: not applicable

n.av.: not available

n.r.: not relevant