Safety Data Sheet
ANSILEX® 93

Revision date : 2012/03/20  Page: 1/8
Version: 4.1 (30344599/SDS_GEN_US/EN)

1. Product and Company Identification

<table>
<thead>
<tr>
<th>Company</th>
<th>24 Hour Emergency Response Information</th>
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</thead>
<tbody>
<tr>
<td>BASF CORPORATION</td>
<td>CHEMTREC: 1-800-424-9300</td>
</tr>
<tr>
<td>100 Campus Drive</td>
<td>BASF HOTLINE: 1-800-832-HELP</td>
</tr>
<tr>
<td>Florham Park, NJ 07932, USA</td>
<td></td>
</tr>
</tbody>
</table>

2. Hazards Identification

Emergency overview

CAUTION:
Prolonged and repeated exposure of dust may cause lung damage.
Contains a suspect carcinogen.
Avoid inhalation of dusts.
Wear protective clothing.
Use with local exhaust ventilation.

State of matter: solid
Colour: white
Odour: odourless

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:
Exposure to dust or fume may cause irritation of the respiratory tract. Contact with the eyes or skin may cause mechanical irritation.

Sensitization:
No sensitizing effect.

Chronic toxicity:

Repeated dose toxicity: Prolonged and repeated exposure may cause lung damage.

Medical conditions aggravated by overexposure:
Contact may aggravate pulmonary disorders.

Signs and symptoms of overexposure:
No significant reaction of the human body to the product known.
Potential environmental effects

Aquatic toxicity:
At the present state of knowledge, no negative ecological effects are expected.

Bioaccumulation / bioconcentration:
The product has not been tested.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>92704-41-1</td>
<td>&gt;= 98.0 - &lt;= 100.0 %</td>
<td>Kaolin, calcined</td>
</tr>
<tr>
<td>1317-70-0</td>
<td>&gt;= 0.4 - &lt;= 2.0 %</td>
<td>Anatase (TiO2)</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

If inhaled:
Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:
Wash off thoroughly with ample water. Consult a doctor if skin irritation persists.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If symptoms persist, seek medical advice.

If swallowed:
No hazards anticipated. If large quantities are ingested, seek medical advice.

Note to physician
Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Flash point: not applicable
Lower explosion limit: not determined
Upper explosion limit: not determined
Self-ignition temperature: not self-igniting

Additional information:
Use extinguishing measures to suit surroundings.

Hazards during fire-fighting:
No particular hazards known.

Protective equipment for fire-fighting:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.
6. Accidental release measures

**Personal precautions:**
Avoid dust formation. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. Wear appropriate respiratory protection.

**Environmental precautions:**
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

**Cleanup:**
Reclaim for processing if possible. Avoid raising dust. Sweep up or vacuum small pieces and dusts and place in appropriate container for disposal.

7. Handling and Storage

**Handling**

**General advice:**
Avoid dust formation. Product may present a nuisance dust hazard. Closed containers should only be opened in well-ventilated areas. Contaminated surfaces will be extremely slippery.

**Protection against fire and explosion:**
No special precautions necessary.

**Storage**

**General advice:**
Keep in a cool, well-ventilated place.

8. Exposure Controls and Personal Protection

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

**Personal protective equipment**

**Respiratory protection:**
Wear appropriate certified respirator when exposure limits may be exceeded. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Hand protection:**
Wear chemical resistant protective gloves.

**Eye protection:**
Safety glasses with side-shields.

**Body protection:**
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:**
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

**Form:** powder

**Odour:** odourless
10. Stability and Reactivity

**Conditions to avoid:**
Avoid dust formation. See MSDS section 7 - Handling and storage.

**Substances to avoid:**
No substances known that should be avoided.

**Hazardous reactions:**
The product is stable if stored and handled as prescribed/indicated.

**Decomposition products:**
No hazardous decomposition products if stored and handled as prescribed/indicated.

**Thermal decomposition:**
not determined

11. Toxicological information

**Acute toxicity**

*Information on: Kaolin, calcined*
Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion.

*Information on: Titanium dioxide*
Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

**Oral:**

*Information on: Kaolin, calcined*
Type of value: LD50  
Species: rat  
Value:  > 2,000 mg/kg (OECD Guideline 401)

*Information on: Kaolin*
Type of value: LD50  
Species: rat  
Value:  > 5,000 mg/kg
Inhalation:

Information on: Kaolin
Type of value: LC50
Species: rat
Value: 36 mg/l
Exposure time: 1 h

Irritation / corrosion

Skin:
May cause mechanical irritation.

Eye:
May cause mechanical irritation.

Genetic toxicity

Information on: Kaolin

Carcinogenicity

Information on: Titanium dioxide
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Reproductive toxicity

Information on: Kaolin
The potential to impair fertility cannot be excluded when given at maternally toxic doses.

Development:

Information on: Kaolin

12. Ecological Information

Fish

Information on: Kaolin, calcined
Acute:
OECD 203; ISO 7346; 92/69/EEC, C.1 semistatic
Oncorhynchus mykiss/LC50 (96 h): > 100 mg/l
No toxic effects occur within the range of solubility.

Information on: Titanium dioxide
Acute:
static
Fundulus heteroclitus/LC50 (96 h): > 1,000 mg/l
Literature data.

Aquatic invertebrates

Information on: Kaolin, calcined
Acute:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): > 1 mg/l
No toxic effects occur within the range of solubility.

Information on: Titanium dioxide
Acute:
static
Daphnia magna/EC50 (48 h): > 1,000 mg/l
Literature data.

Aquatic plants

Information on: Kaolin, calcined
Toxicity to aquatic plants:
OECD Guideline 201 static
green algae/EC50 (72 h): > 100 mg/l
The value meets the highest applied test concentration. No toxic effects occur within the range of solubility.

Degradability / Persistence
Biological / Abiological Degradation
Evaluation: Inorganic product which cannot be eliminated from water by biological purification processes.
The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with local authority regulations. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. This product does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity).

Container disposal:
Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

RCRA: None

14. Transport Information
Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

OSHA hazard category: IARC 1, 2A or 2B carcinogen; Chronic target organ effects reported

EPCRA 311/312 (Hazard categories): Chronic;

State regulations

State RTK CAS Number Chemical name
PA 1317-70-0 Anatase (TiO2)

CA Prop. 65: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

16. Other Information

NFPA Hazard codes:
Health: 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating
Health: 1 Flammability: 1 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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Any other intended applications should be discussed with the manufacturer.

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