



The Chemical Company

## Safety data sheet

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BASF Safety data sheet

Date / Revised: 07.11.2011

Version: 6.0

Product: T162 3/4"(30500762/SDS\_GEN\_SG/EN)

Date of print 08.11.2011

### 1. Substance/preparation and company identification

**T162 3/4"**

Use: Adsorbent for the chemical industry

Company:

BASF South East Asia Pte Ltd.  
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#35-01 Suntec Tower One, 038987, SINGAPORE  
Telephone: +65 6 337-0330  
Telefax number: +65 6 334-0330  
E-mail address: tommy.chng@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

### 2. Hazard identification

Classification of the substance and mixture:

No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:

No specific dangers known, if the regulations/notes for storage and handling are considered.

### 3. Composition/information on ingredients

Chemical nature

metal oxides

| No particular hazards known.

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#### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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#### 5. Fire-Fighting Measures

Additional information:

Use extinguishing measures to suit surroundings.

Specific hazards:

No particular hazards known.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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#### 6. Accidental Release Measures

Personal precautions:

Avoid dust formation. Do not breathe dust. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:  
Avoid raising dust. Dampen, pick up mechanically and dispose of. Reclaim for processing if possible.  
Dispose of absorbed material in accordance with regulations.

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## 7. Handling and Storage

### Handling

Avoid raising dust. Avoid contact with skin and eyes. Ensure adequate ventilation.

Protection against fire and explosion:  
The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

### Storage

Suitable materials for containers: Stainless steel 1.4301 (V2), Stainless steel 1.4401, Low density polyethylene (LDPE), High density polyethylene (HDPE), glass  
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

aluminium oxide, 1344-28-1;  
TWA value 10 mg/m<sup>3</sup> (OEL (SG))  
TWA value 1 mg/m<sup>3</sup> (ACGIHTLV), Respirable fraction

### Personal protective equipment

Respiratory protection:  
Breathing protection if dusts are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1)

Hand protection:  
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact  
(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:  
Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:  
Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:  
Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

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## 9. Physical and Chemical Properties

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|---|---|
| Form:   | spheres   |
| Colour:   | white   |
| Odour:  | odourless   |
| Odour threshold:                                    | not applicable  |
| pH value:   | not applicable  |
| Melting point:                                      | 2,015 °C<br>Literature data.                          |
| Boiling point:                                      | not determined  |
| Flash point:  | not applicable  |
| Evaporation rate:                                   | not applicable  |
| Lower explosion limit:                              | not applicable  |
| Upper explosion limit:                              | not applicable  |
| Thermal decomposition:                              | No decomposition if used correctly.                   |
| Self ignition:                                      | not self-igniting                                     |
| Self heating ability:                               | It is not a substance capable of spontaneous heating. |
| Explosion hazard:                                   | not explosive   |
| Fire promoting properties:                          | not fire-propagating                                  |
| Vapour pressure:                                    | not applicable  |
| Bulk density:                                       | 1,500 kg/m <sup>3</sup>                               |
| Relative vapour density (air):                      | not applicable  |
| Solubility in water:                                | insoluble   |
| Partitioning coefficient n-octanol/water (log Pow): | Study scientifically not justified.                   |
| Viscosity, dynamic:                                 | not applicable  |

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## 10. Stability and Reactivity

Conditions to avoid:  
Avoid dust formation.

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Thermal decomposition: No decomposition if used correctly.

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

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:  
Evolution of heat under influence of acids. Addition of water leads to increase in temperature.  
The product is chemically stable.

Hazardous decomposition products:  
No hazardous decomposition products known.

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## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation.

Experimental/calculated data:  
LD50 rat (oral): > 5,000 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 2.3 mg/l 4 h (OECD Guideline 403)  
Tested as dust aerosol.

(dermal): Study scientifically not justified.

### Irritation

Assessment of irritating effects:  
Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

### Respiratory/Skin sensitization

Assessment of sensitization:  
Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:  
guinea pig: Non-sensitizing.

### Germ cell mutagenicity

Assessment of mutagenicity:  
Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.



### **Carcinogenicity**

Assessment of carcinogenicity:  
The whole of the information available provides no indication of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
Study scientifically not justified.

### **Developmental toxicity**

Assessment of teratogenicity:  
No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### **Specific target organ toxicity (single exposure):**

Assessment of STOT single:  
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:  
The substance may cause damage to the lung after repeated inhalation of high doses.

### **Aspiration hazard**

not applicable

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms.  
No toxic effects occur within the range of solubility.

Toxicity to fish:  
LC50 (96 h) > 218.64 mg/l, Pimephales promelas (Fish test acute, semistatic)  
The product has not been tested. The statement has been derived from products of a similar structure or composition. Tested above maximum solubility.

Aquatic invertebrates:  
No observed effect concentration (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)  
Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Aquatic plants:

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No observed effect concentration (72 h) > 100 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)  
Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:  
Study scientifically not justified.

Chronic toxicity to fish:  
EC10 (7 d) 0.0938 mg/l, Pimephales promelas (semistatic)

Chronic toxicity to aquatic invertebrates:  
No observed effect concentration (21 d), 0.076 mg/l, Daphnia magna (OECD Guideline 211, semistatic)  
The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Assessment of terrestrial toxicity:  
Study scientifically not justified.

### **Mobility**

Assessment transport between environmental compartments:  
Study scientifically not justified.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Inorganic product which cannot be eliminated from water by biological purification processes.

Assessment of stability in water:  
Study scientifically not justified.

### **Bioaccumulation potential**

Assessment bioaccumulation potential:  
Significant accumulation in organisms is not to be expected.

### **Additional information**

Other ecotoxicological advice:  
No toxic effects occur within the range of solubility.

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## **13. Disposal Considerations**

Dispose of in accordance with national, state and local regulations.  
Contact specialized companies about recycling.

Contaminated packaging:  
Dispose of in accordance with national, state and local regulations.  
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

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

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## 15. Regulatory Information

### Regulations of the European union (Labelling)

as in Annex VI of Directive 67/548/EEC:

Self classification

The product does not require a hazard warning label in accordance with EC Directives.

### Other regulations

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## 16. Other Information

Recommended use: Industrial catalyst

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.