

Page 1 of 9  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revised on / Version: 19.01.2011 / 0002  
Replaces revision of / Version: 11.11.2010 / 0001  
Valid from: 19.01.2011  
PDF print date: 24.02.2011  
Chemsolute® sorb GE 2418.0001  
GE 2440.0001  
GE 2450.0001  
Art.: 2418

**Safety data sheet  
according to Regulation (EC) No 1907/2006, Annex II**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Chemsolute® sorb**  
**GE 2418.0001**  
**GE 2440.0001**  
**GE 2450.0001**  
**Art.: 2418**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses of the substance or mixture:**

Binder

**Uses advised against:**

No information available at present.

**1.3 Details of the supplier of the safety data sheet**

Th. Geyer GmbH & Co. KG, Dornierstrasse 4, D-71272 Renningen  
Telephone +49 (0)7159/1637-38, Fax +49 (0)7159/18417  
www.thgeyer.de

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

**1.4 Emergency telephone**

**Advisory office in case of poisoning:**

+49 (0)30 / 19240 (Berlin)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)**

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

**2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).**

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

**2.2 Label elements**

**2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)**

Not applicable

**2.3 Other hazards**

The mixture contains no vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains no PBT substance (PBT = persistent, bioaccumulative, toxic).

Not applicable

Page 2 of 9  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance

n.a.

#### 3.2 Mixture

Registration number (ECHA)	-
Index	-
EINECS, ELINCS	-
CAS	-
content %	-
Symbol	-
R-phrases	-
Classification categories / Indications of danger	---
Hazard class/Hazard category	Hazard statement
---	---

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

##### Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

##### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

##### Ingestion

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

#### 4.2 Most important symptoms and effects, both acute and delayed

Where relevant delayed occurring symptoms and effects will be found in section 11. or at the exposure routes under section 4.1.

#### 4.3 Indication of any immediate medical attention and special treatment needed

n.c.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

The product does not burn.

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

##### Unsuitable extinguishing media

High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

Page 3 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
 Protective respirator with independent air supply.  
 According to size of fire  
 Full protection, if necessary  
 Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid build up of dust.  
 Ensure sufficient supply of air.  
 Avoid contact with eyes.  
 Prevent long-term skin contact.

### 6.2 Environmental precautions

Prevent from entering drainage system.  
 Prevent surface and ground-water infiltration, as well as ground penetration.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.  
 Collect spilled material with a dust-trapping sweeping agent or a suitable vacuum cleaner.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

Avoid build up of dust.  
 Ensure good ventilation.  
 Avoid contact with eyes.  
 Avoid long lasting or intensive contact with skin.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Protect against moisture and store closed.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	Silica, amorphous	Content %:
WEL-TWA: 6 mg/m <sup>3</sup> (total inh. dust), 2,4 mg/m <sup>3</sup> (resp. dust)	WEL-STEL: ---	---

Page 4 of 9  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

BMGV: ---		Other information: ---	
Chemical Name	general dust limit	Content %:	
WEL-TWA: 10 mg/m <sup>3</sup> (inhal. dust), 4 mg/m <sup>3</sup> (respir. dust)	WEL-STEL: ---	---	
BMGV: ---		Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period)  
 EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Protective gloves in butyl rubber (EN 374).

Permeation time (penetration time) in minutes:

> 120

Protective hand cream recommended.

Skin protection - Other:

Usual protective working garments

Respiratory protection:

Normally not necessary.

If the general dust-limit is exceeded, breathing masks with fine-dust filters are necessary (EN 143), code colour white.

If applicable, filter P 2 (EN 143), code colour white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Page 5 of 9  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid, powder
Colour:	Light green
Odour:	Odourless
Odour threshold:	Not determined
pH-value:	6-7 (1)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	n.a.
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	Not determined
Bulk density:	>360 kg/m <sup>3</sup>
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	>440 °C (DIN 51794, Not determined)
Decomposition temperature:	240 °C
Viscosity:	n.a.
Explosive properties:	Not determined
Oxidising properties:	Not determined

### 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See also Subsection 10.4 to 10.6.  
 The product has not been tested.

### 10.2 Chemical stability

See also Subsection 10.4 to 10.6.  
 Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.  
 No decomposition if used as intended.

### 10.4 Conditions to avoid

See also section 7.  
 Protect from humidity.  
 Product is hygroscopic.

Page 6 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 19.01.2011 / 0002

Replaces revision of / Version: 11.11.2010 / 0001

Valid from: 19.01.2011

PDF print date: 24.02.2011

Chemsolute® sorb GE 2418.0001

GE 2440.0001

GE 2450.0001

Art.: 2418

## 10.5 Incompatible materials

See also section 7.

No dangerous reactions are known.

## 10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.

See also section 5.3

No decomposition when used as directed.

## SECTION 11: Toxicological information

The product was not tested.

Classification according to calculation procedure.

Chemsolute® sorb

GE 2418.0001

GE 2440.0001

GE 2450.0001

Art.: 2418

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:				---		n.d.a.
Acute toxicity, by dermal route:				---		n.d.a.
Acute toxicity, by inhalation:				---		n.d.a.
Skin corrosion/irritation:				---		n.d.a.
Serious eye damage/irritation:				---		n.d.a.
Respiratory or skin sensitisation:				---		n.d.a.
Germ cell mutagenicity:				---		n.d.a.
Carcinogenicity:				---		n.d.a.
Reproductive toxicity:				---		n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):				---		n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):				---		n.d.a.
Aspiration hazard:				---		n.d.a.
Respiratory tract irritation:				---		n.d.a.
Repeated dose toxicity:				---		n.d.a.
Symptoms:				---		n.d.a.

Silica, amorphous

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				---		Not irritant
Respiratory or skin sensitisation:				---		Not sensitising
Carcinogenicity:				---		Negative

Page 7 of 9  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

Symptoms:				---		abdominal pain, diarrhoea, vomiting, sore throat, hoarseness, coughing, headaches, nausea
-----------	--	--	--	-----	--	---

## SECTION 12: Ecological information

The product was not tested.  
 According to the recipe, contains no AOX.

Chemsolute® sorb  
 GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

Silica, amorphous							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>=100 00		(Brachydanio rerio)	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	24h	>=100 00		(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)  
 07 02 99 wastes not otherwise specified

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

Page 8 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revised on / Version: 19.01.2011 / 0002  
 Replaces revision of / Version: 11.11.2010 / 0001  
 Valid from: 19.01.2011  
 PDF print date: 24.02.2011  
 Chemsolute® sorb GE 2418.0001  
 GE 2440.0001  
 GE 2450.0001  
 Art.: 2418

### For contaminated packing material

Pay attention to local and national official regulations  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

UN number:	n.a.
<b>Transport by road/by rail (ADR/RID)</b>	
UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Classification code:	n.a.
LQ (ADR 2011):	n.a.
LQ (ADR 2009):	n.a.
Environmental hazards:	Not applicable
Tunnel restriction code:	

### Transport by sea (IMDG-code)

UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Marine Pollutant:	n.a.
Environmental hazards:	Not applicable

### Transport by air (IATA)

UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Environmental hazards:	Not applicable

### Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

### Additional information:

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For classification and labelling see Section 2.

Observe restrictions:	n.a.
VOC (1999/13/EC):	0%

### 15.2 Chemical safety assessment

No information available at present.

## SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections:

1 - 16



Page 9 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revised on / Version: 19.01.2011 / 0002

Replaces revision of / Version: 11.11.2010 / 0001

Valid from: 19.01.2011

PDF print date: 24.02.2011

Chemsolute® sorb GE 2418.0001

GE 2440.0001

GE 2450.0001

Art.: 2418

### Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

VOC = Volatile organic compounds

AOX = Adsorbable organic halogen compounds

ATE = Acute Toxicity Estimates according to Regulation (EC) 1272/2008 (CLP)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-**

**CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.