

**SAFETY DATA SHEET (EC 1907/2006)****CALOSTAT®**

Version:	<b>2.1 / REG_EU</b>	Material no.	
Revision date:	<b>24.05.2016</b>	Specification	<b>179125</b>
Issue date:	18.10.2012	VA-Nr	
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	CALOSTAT®
REACH Registration No.:	if available listed in Chapter. 3

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

Company	Evonik Resource Efficiency GmbH RE-ES-PS Hanau Postfach 1345 D-63403 Hanau
Telephone	+49 (0)6181 59-4787
Telefax	+49 (0)6181 59-4205
Email address	sds-hu@evonik.com

**1.4. Emergency telephone number**

Emergency information	+49 (0)7623-919191 (Interpreting service available)
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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not a hazardous mixture according to Regulation (EC) No 1272/2008.

**2.2. Label elements****Labelling as per (EU) 1272/2008**

Statutory basis	Labelling not required according to EU-CLP Ordinance (1272/2008).
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**2.3. Other hazards**

The proportion of crystalline silicic acids in synthetic amorphous in silicon carbide is distinctly lower than the measureable content of SiO<sub>2</sub>.

The proportion of silicic acids in synthetic amorphous silicon dioxide is below the detection limit of 0.05 weight percentages.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

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**3.2. Mixtures****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008****• Surface modified silicon dioxide**

Remarks	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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**• Silicon carbide**

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CAS-No.	409-21-2	EC-No.	206-991-8
Remarks	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.		

Texts of H phrases, see in Chapter 16

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

In case product dust is released:  
Possible discomfort: cough, sneezing  
Move victims into fresh air.

**Skin contact**

Wash off with plenty of water and soap.

**Eye contact**

Possible discomfort is due to foreign substance effect.  
Rinse thoroughly with plenty of water keeping eyelid open.  
In case of persistent discomfort: Consult an ophthalmologist.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.  
After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms**

None known

**Hazards**

None known

**4.3. Indication of any immediate medical attention and special treatment needed**

No hazards which require special first aid measures.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media: Water spray, foam, CO<sub>2</sub>, dry powder.  
Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

**5.2. Special hazards arising from the substance or mixture**

May be released in case of fire: carbon monoxide and carbon dioxide.

**5.3. Advice for firefighters**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.  
Ensure there are sufficient retaining facilities for water used to extinguish fire.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Retention of fire-extinguishing water in Germany: see FireExtinguishing Water Retention Directive "LoeRueRL":

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment; see section 8.

**6.2. Environmental precautions**

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### Additional advice

Avoid dust formation.

### 6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

If necessary: Local ventilation.

During processing dust is released.

Wear Dust mask and eye protectors.

For personal protection see section 8.

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

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.

#### Storage

Keep in a dry place.

### 7.3. Specific end use(s)

No further information available

Applications; see Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Personal protective equipment

##### Respiratory protection

If dust occurs: dust mask with P1 particle filter

##### Hand protection

Wear protective gloves made of the following materials: material, rubber, leather.

The material thickness and rupture time data do not apply to non-solute solids / dusts.

##### Eye protection

Safety glasses with side-shields

##### Skin and body protection

No special protective equipment required.

##### Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

##### Protective measures

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance

Form

blocks

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Colour	grey
physical state	solid
Odour	odourless
Odour threshold:	not applicable
pH	not applicable
Melting point/range	> 800 °C
Boiling point/range	> 1500 °C
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	not flammable
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	not applicable
Vapour density	not applicable
Density	ca. 165 kg/m <sup>3</sup> (20 °C)
Water solubility	insoluble
Partition coefficient n-octanol/water	not applicable
Autoinflammability	not applicable
Thermal decomposition	Decomposition beginning: > 300 °C
Viscosity, dynamic	not applicable
Explosiveness	not explosive
Oxidizing properties	Not to be expected in view of the structure

**9.2. Other information**

Ignition temperature	> 600 °C Method: VDI Guideline 2263 sheet 1
peroxides	The substance or mixture is not classified as organic peroxide.
Minimum ignition energy	not applicable
Metal corrosion	Not to be expected in view of the structure

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

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**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions      No hazardous reactions are known if properly handled and stored.

**10.4. Conditions to avoid**

Hydrophobic properties disappear at temperatures > 300°C

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

decomposition products with heating above decomposition temperature

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

organic products of decomposition

Stable under normal conditions.

Product will not undergo hazardous polymerization.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

*No toxicological tests are available on the product.*

Acute oral toxicity	LD50 rat: > 2000 mg/kg Method: literature Assessment: The substance or mixture has no acute oral toxicity The data are derived from the evaluations or test results achieved with the individual substances.
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Acute dermal toxicity	LD50 rat (male/female): > 2000 mg/kg Method: OECD Test Guideline 402 Test substance: Silicon carbide Assessment: The substance or mixture has no acute dermal toxicity
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Skin irritation	Rat not irritating Method: OECD Test Guideline 402 Test substance: Silicon carbide
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Eye irritation	Product dust may cause temporary mechanical eye irritation.
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Sensitization	not known
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Assessment of STOT single exposure	no evidence for hazardous properties
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Assessment of STOT repeat exposure	no evidence for hazardous properties
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Risk of aspiration toxicity	Not classified as an aspiration hazard.
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Mutagenicity assessment	No data available
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Carcinogenicity	No data available
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Toxicity to reproduction	No data available
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Further information	Based on available data, the classification criteria are not met.
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**SECTION 12: Ecological information**

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**12.1. Toxicity**

*No ecotoxicological data is available for this product.*

Toxicity to fish                      No data available

**12.2. Persistence and degradability**

Biodegradability                      Inorganic, hardly water soluble product that can be eliminated from water by mechanical means.

**12.3. Bioaccumulative potential**

Bioaccumulation                      Not to be expected.

**12.4. Mobility in soil**

Mobility                                  No remarkable mobility in soil is to be expected.

**12.5. Results of PBT and vPvB assessment**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**12.6. Other adverse effects**

Further Information                      The data we have at our disposal do not necessitate identification concerning environmental hazard.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Product**

Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

**Uncleaned packaging**

Offer rinsed packaging material to local recycling facilities.  
Other countries: observe the national regulations.

**Waste Key Number**

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

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**SECTION 14: Transport information**

**Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation****15.2. Chemical safety assessment**

Chemical safety assessment    No chemical safety assessment is required for this product.

**SECTION 16: Other information****Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)****Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level

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<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization