

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name or designation of the mixture	PREMIUM GEL® R
Registration number	-
Synonyms	None.
Issue date	06-June-2014
Version number	04
Revision date	27-June-2014
Supersedes date	25-June-2014

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

Identified uses	Not available.
Uses advised against	None known.

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

Company name	CETCO-Poland,CETCO sp zo.o.S.K.A
Address	Korpele 13A-Strefa 12-100 Szczytno PL
Telephone	General Information +48 0 89 624 7300
e-mail	safety.data@amcol.com
Contact person	EHS Department

**1.4. Emergency telephone number**

United Kingdom	44 8 08 189 0979
Europe	1 760 476 3961

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Bentonite with less than 10% w/w crystalline silica does not meet the criteria for classification as hazardous according to EC Regulation 1272/2008 and Directive 67/548/EC as amended. This product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the SWERF method.

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

**Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary**

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Not applicable.
Main symptoms	None known.

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended**

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

**Precautionary statements**

Prevention	
P102	Keep out of reach of children.

P103	Read label before use.
<b>Response</b>	
P101	If medical advice is needed, have product container or label at hand.
<b>Storage</b>	Not available.
<b>Disposal</b>	Not available.
<b>Supplemental label information</b>	None.
<b>2.3. Other hazards</b>	None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

## SECTION 4: First aid measures

**General information** No hazards which require special first aid measures. Provide general supportive measures and treat symptomatically.

### 4.1. Description of first aid measures

<b>Inhalation</b>	No specific first aid measures noted. Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	No specific first aid measures noted. Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	No specific first aid measures noted. Flush thoroughly with water. If irritation occurs, get medical assistance.
<b>Ingestion</b>	No specific first aid measures noted. Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

**4.2. Most important symptoms and effects, both acute and delayed** Dust in the eyes will cause irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** This material will not burn.

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use any media suitable for the surrounding fires.
<b>Unsuitable extinguishing media</b>	Not applicable, non-combustible.

**5.2. Special hazards arising from the substance or mixture** None known. The product itself does not burn.

### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	None known.
<b>Special fire fighting procedures</b>	Material can be slippery when wet.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
<b>For emergency responders</b>	Avoid generation and spreading of dust. Avoid inhalation of dust. Wear a dust mask if dust is generated above exposure limits. Material can be slippery when wet.

**6.2. Environmental precautions** No special environmental precautions required. Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up** Avoid the generation of dusts during clean-up. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

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

Store in a dry area. Keep the container dry. No special restrictions on storage with other products.

#### 7.3. Specific end use(s)

If you require advice on specific uses, please contact your supplier.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

##### Additional components

##### Type

##### Value

##### Form

INERT OR NUISANCE  
DUSTS  
(CAS SEQ250)

TWA

4 mg/m<sup>3</sup>

Respirable dust.

10 mg/m<sup>3</sup>

Inhalable dust.

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Recommended monitoring procedures

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

#### Derived no-effect level (DNEL)

Not available.

#### Predicted no effect concentrations (PNECs)

Not available.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

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

##### General information

Applicable for industrial settings only:

##### Eye/face protection

Wear dust-resistant safety goggles where there is danger of eye contact.

##### Skin protection

##### - Hand protection

No protection is ordinarily required under normal conditions of use.

##### - Other

No special protective equipment required. Normal work clothing (long sleeved shirts and long pants) is recommended.

##### Respiratory protection

Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

##### Thermal hazards

Not applicable.

##### Hygiene measures

Use good industrial hygiene practices in handling this material.

##### Environmental exposure controls

Contain spills and prevent releases and observe national regulations on emissions.

### SECTION 9: Physical and chemical properties

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

##### Appearance

Lump, granular or fine powder.

##### Physical state

Solid.

##### Form

Various.

##### Colour

Various.

##### Odour

None.

##### Odour threshold

Not applicable.

##### pH

8.5 - 11

##### Melting point/freezing point

> 450 °C (> 842 °F) / Not applicable.

##### Initial boiling point and boiling range

Not applicable.

##### Flash point

Not applicable.

##### Evaporation rate

Not available.

**Flammability (solid, gas)** This product is not flammable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not applicable.

**Flammability limit - upper (%)** Not applicable.

**Vapour pressure** Not applicable.

**Vapour density** Not applicable.

**Relative density** 2.6 g/cm<sup>3</sup>

**Solubility(ies)**

**Solubility (water)** < 0.9 mg/l

**Solubility (other)** Not available.

**Partition coefficient (n-octanol/water)** Not applicable.  
Not applicable.

**Auto-ignition temperature** Not applicable.

**Decomposition temperature** > 500 °C (> 932 °F)

**Viscosity** Not applicable.

**Viscosity temperature** Not applicable.

**Explosive properties** Not explosive

**Oxidizing properties** None.

**9.2. Other information**

**Bulk density** 0.9 - 1.4 g/cm<sup>3</sup>

**Explosive limit** Not applicable.

**Explosivity** Not applicable.

**Flame extension** Not applicable.

**Flammability** Not applicable.

**Flammability (flash back)** Not applicable.

**Flammability (Heat of combustion)** Not applicable.

**Flammability (Train fire)** Not applicable.

**Flash point class** Not flammable

**Molecular formula** UVCB Substance

**Molecular weight** Not applicable.

**Percent volatile** 0 %

**pH in aqueous solution** 8.5 - 11

**Specific gravity** Not applicable.

**VOC (Weight %)** 0 %

**SECTION 10: Stability and reactivity**

**10.1. Reactivity** None known.

**10.2. Chemical stability** Stable at normal conditions.

**10.3. Possibility of hazardous reactions** Will not occur.

**10.4. Conditions to avoid** Moisture.

**10.5. Incompatible materials** None known.

**10.6. Hazardous decomposition products** None.

**SECTION 11: Toxicological information**

**General information** Bentonite with less than 10% w/w crystalline silica does not meet the criteria for classification as hazardous according to EC Regulation 1272/2008 and Directive 67/548/EC as amended.

**Information on likely routes of exposure**

**Ingestion** Not classified.

**Inhalation** Not classified. Inhalation of dusts may cause respiratory irritation.

**Skin contact** Not classified.

**Eye contact** Not classified. Dust in the eyes will cause irritation.

<b>Symptoms</b>	None known.
<b>11.1. Information on toxicological effects</b>	
<b>Acute toxicity</b>	Not classified.
<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified. Mild irritant to eyes (according to the modified Kay & Calandra criteria)
<b>Respiratory sensitisation</b>	Not classified.
<b>Skin sensitisation</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	No carcinogenicity data available for this product. Sepiolite was evaluated by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans"). Based on read-across with sepiolite, bentonite was assessed as non-carcinogenic. Therefore classification of bentonite for carcinogenicity is not warranted.
<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w. Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product			Species	Test results
PREMIUM GEL® R (CAS Mixture)				
Crustacea	EC50		Daphnia	> 100 mg/l, 48 hours
Other	EC50		Freshwater algae	> 100 mg/l, 72 hours
	LC50		Freshwater fish	16000 mg/l, 96 hours
			Marine water fish	2800 - 3200 mg/l, 24 hours
<b>Aquatic</b>				
Crustacea	EC50		Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours
			Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hours

**12.2. Persistence and degradability** Not relevant for inorganic substances

**12.3. Bioaccumulative potential** Will not bio-accumulate.

**Partition coefficient n-octanol/water (log Kow)** Not applicable.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Bentonite is almost insoluble and thus presents a low mobility in most soils.

**Mobility in general** The product has poor water-solubility.

**12.5. Results of PBT and vPvB assessment** Not applicable.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Store containers and offer for recycling of material when in accordance with the local regulations.
<b>EU waste code</b>	Not available.

## **SECTION 14: Transport information**

### **ADR**

Not regulated as dangerous goods.

### **RID**

Not regulated as dangerous goods.

### **ADN**

Not regulated as dangerous goods.

### **IATA**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

**14.7. Transport in bulk** Not available.

**according to Annex II of  
MARPOL 73/78 and the IBC  
Code**

## **SECTION 15: Regulatory information**

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

#### **EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**

Not listed.

#### **Other EU regulations**

**Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Not listed.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**National regulations**

Not available.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out. Bentonite is exempted from REACH registration in accordance with Annex V.7. A hazard assessment has been conducted under the umbrella of the European Bentonite Association (EUBA) and the outcome was that bentonite is not a hazardous substances. Therefore, in absence of identified hazard, the substance is safe and presents no risk.

**SECTION 16: Other information**

**List of abbreviations**

SWERF = Size-Weighted Relevant Fine Fraction methodology is a scientific method developed to quantify the content of respirable particles within a bulk product. All details about the SWERF method are available at [www.crystallinesilica.eu](http://www.crystallinesilica.eu).  
UVCB = a substance of Unknown or Variable composition, Complex reaction products or Biological materials

**References**

For any information on literature references or toxicity/ecotoxicity studies, please contact the supplier.

**Information on evaluation method leading to the classification of mixture**

Bentonite with less than 10% w/w crystalline silica does not meet the criteria for classification as hazardous according to EC Regulation 1272/2008 and Directive 67/548/EC as amended. For any information on literature references or toxicity/ecotoxicity studies, please contact the supplier.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

None.

**Revision information**

None.

**Training information**

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

**Issued by**

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**Disclaimer**

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