



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

## 1 Identification of substance

- **Product details**
- **Trade name:** Phoscrete 602
- **Article number:** PC-602
- **Application of the substance / the preparation** Concrete/Mortar admixtures
- **Manufacturer/Supplier:**  
Stellar Materials Incorporated  
7777 Glades Road Suite 200  
Boca Raton, FL 33434  
U.S.A.
- **Information department:** product safety department
- **Emergency information:** during normal opening hours: +1 (561) 330-9300

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

1344-28-1	aluminium oxide	30 - 32%
14808-60-7	Quartz (SiO <sub>2</sub> )	26 - 28%
1302-93-8	Calcined Bauxitic Kaolin	14 - 16%
14464-46-1	crystalite	< 8%
1309-48-4	magnesium oxide	4 - 6%
13463-67-7	titanium dioxide	< 2%

## 3 Hazards identification

- **Hazard description:** Not applicable.
- **Information pertaining to particular dangers for man and environment:**  
The product does not have to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

## 4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.

(Contd. on page 2)

USA



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

Trade name: Phoscrete 602

(Contd. of page 1)

- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 1344-28-1 aluminium oxide

PEL	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (E)	(10) mg/m <sup>3</sup>

### 14808-60-7 Quartz (SiO<sub>2</sub>)

PEL	see Quartz listing
REL	0.05* mg/m <sup>3</sup> *respirable dust
TLV	0.025 R mg/m <sup>3</sup>

### 1302-93-8 Calcined Bauxitic Kaolin

TLV	Short-term value: 15 mg/m <sup>3</sup>
-----	--

### 14464-46-1 cristobalite

REL	0.05* mg/m <sup>3</sup> *respirable dust
TLV	0.025 R mg/m <sup>3</sup>

(Contd. on page 3)



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

Trade name: Phoscrete 602

(Contd. of page 2)

**1309-48-4 magnesium oxide**

PEL 15\* mg/m<sup>3</sup>  
\*total particulate  
TLV 10 I mg/m<sup>3</sup>

**13463-67-7 titanium dioxide**

PEL 15\* mg/m<sup>3</sup>  
\*total dust  
REL LFC (LOQ 0.2 mg/m<sup>3</sup>)  
TLV 10 mg/m<sup>3</sup>

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Suitable respiratory protective device recommended.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

· **General Information**

**Form:** Solid  
**Color:** According to product specification  
**Odor:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· **Solubility in / Miscibility with**

**Water:** Soluble.

· **Solvent content:**

**Organic solvents:** 0.0 %

(Contd. on page 4)

USA



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

Trade name: Phoscrete 602

(Contd. of page 3)

· **Solids content:** 80.7 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- **General notes:**  
Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.

## 13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

(Contd. on page 5)

USA



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

Trade name: Phoscrete 602

(Contd. of page 4)

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- UN "Model Regulation": -
- Transport/Additional information: Not dangerous according to the above specifications.

## 15 Regulations

### · Sara

#### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### · Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

#### · TSCA (Toxic Substances Control Act):

1344-28-1 aluminium oxide

14808-60-7 Quartz (SiO<sub>2</sub>)

14464-46-1 cristobalite

1309-48-4 magnesium oxide

13463-67-7 titanium dioxide

7631-86-9 silicon dioxide, chemically prepared

1332-37-2 Iron oxide

### · Proposition 65

#### · Chemicals known to cause cancer:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

#### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

### · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### · IARC (International Agency for Research on Cancer)

14808-60-7 Quartz (SiO<sub>2</sub>)

1

14464-46-1 cristobalite

1

13463-67-7 titanium dioxide

3

7631-86-9 silicon dioxide, chemically prepared

3

#### · NTP (National Toxicology Program)

14808-60-7 Quartz (SiO<sub>2</sub>)

K

14464-46-1 cristobalite

K

#### · TLV (Threshold Limit Value established by ACGIH)

1344-28-1 aluminium oxide

A4

(Contd. on page 6)



# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 09/23/2008

Reviewed on 09/02/2008

Trade name: Phoscrete 602

(Contd. of page 5)

14808-60-7	Quartz (SiO <sub>2</sub> )	A2
13463-67-7	titanium dioxide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO <sub>2</sub> )	
14464-46-1	crystalite	
13463-67-7	titanium dioxide	

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** product safety department

· **Contact:** Mr. Neil Mintz

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

USA