



# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

**PREPSTAR**  
Revision Number 2

Revision Date: 12-Aug-2020  
Supersedes Date: 08-Jun-2020

## 1. Identification

### 1.1. Product Identifier

**Product Name** PREPSTAR

#### Other means of identification

**Other information** Not applicable

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

**Recommended use** No information available  
**Restrictions on use** No information available

### 1.3. Details of the supplier of the safety data sheet

#### Responsible Party

Bostik Inc.  
11320 W. Watertown Plank Road  
Wauwatosa, Wisconsin 53226 USA  
Phone: +1 (800) 843-0844 (Domestic Toll Free)  
Phone: +1 (414) 774-2250 (International)  
Fax: +1 (414) 774-8075

**E-mail** msds@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone** Telephone: 1-800-227-0332  
(Outside U.S.) 1-703-527-3887

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

### 2.2. Label Elements

#### EMERGENCY OVERVIEW

**Danger**

#### **Hazard statements**

Causes serious eye damage  
May cause an allergic skin reaction  
May cause cancer  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure

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**Appearance** Powder                      **Physical state** Solid                      **Odor** No information available

## Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

## Precautionary Statements - Storage

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

## Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

31 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

Product dust may be irritating to eyes, skin and respiratory system. When cement reacts with water a strong alkaline solution is produced. Prolonged contact with wet cement or wet concrete may cause serious burns because they develop without pain being felt e.g. when kneeling in wet cement even when wearing trousers. Frequent inhalation of large quantities of cement dust over a long period of time increases the risk of developing lung disease.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%
Cement, alumina, chemicals	65997-16-2	15 - 40

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Ashes, residues	68131-74-8	5 - 10
Slags, ferrous metal, blast furnace	65996-69-2	5 - 10
Calcium sulfate hemihydrate	10034-76-1	5 - 10
Calcium Sulfoaluminate Cement	960375-09-1	1 - 5
Calcium sulfate dihydrate	10101-41-4	1 - 5
Wollastonite	13983-17-0	1 - 5
Bentonite	1302-78-9	1 - 5
Cellulose	9004-34-6	1 - 5
Cement, portland, chemicals	65997-15-1	0.1 - 1
Quartz	14808-60-7	0.1 - 1

*\*The exact percentage (concentration) of composition has been withheld as a trade secret*

## 4. First-aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Consult an ophthalmologist.
<b>Skin contact</b>	Brush off loose particles from skin. Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Causes serious eye damage. Irritating to skin. May cause sensitization by skin contact. Itching. Redness. Inhalation of dust in high concentration may cause irritation of respiratory system.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization by skin contact. Treat symptomatically.
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## 5. Fire-fighting measures

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
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chemical

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Oxides of sulfur. Silicon oxides.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6. Accidental release measures**

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

**Personal precautions** Use personal protective equipment as required. Avoid generation of dust. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Sweep up to prevent slipping hazard.

### 6.2. Environmental precautions

**Environmental precautions** Prevent product from entering drains. See Section 12 for additional Ecological Information.

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

**Methods for containment** Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Prevent dust cloud.

**Methods for cleaning up** Use personal protective equipment as required. Sweep up and shovel into suitable containers for disposal. Avoid generation of dust.

See section 8 for more information. See section 13 for more information.

## **7. Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid generation of dust. Do not breathe dust. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling.

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

**Storage Conditions** Keep out of the reach of children. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Protect from moisture.

### 7.3 References to other sections

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Reference to other sections      Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Cement, alumina, chemicals 65997-16-2	10 mg/m <sup>3</sup> (total; 5 mg/m <sup>3</sup> (resp)	-	-
Ashes, residues 68131-74-8	TWA: 1 mg/m <sup>3</sup> Cu dust and mist	-	IDLH: 100 mg/m <sup>3</sup> Cu dust and mist IDLH: 10 mg/m <sup>3</sup> Ni Ceiling: 0.05 mg/m <sup>3</sup> V dust and fume 15 min TWA: 1 mg/m <sup>3</sup> Cu dust and mist TWA: 0.015 mg/m <sup>3</sup> except Nickel carbonyl Ni
Slags, ferrous metal, blast furnace 65996-69-2	2 mg/m <sup>3</sup> ((total)calcium oxide)	-	-
Calcium sulfate hemihydrate 10034-76-1	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter	-	-
Calcium sulfate dihydrate 10101-41-4	TWA: 10 mg/m <sup>3</sup> inhalable particulate matter	-	-
Wollastonite 13983-17-0	TWA: 1 mg/m <sup>3</sup> inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica	-	-
Bentonite 1302-78-9	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	-	-
Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 1 mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	TWA: 1 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction TWA: 50 mppcf <1% Crystalline silica	IDLH: 5000 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays : (250)/(%)SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%)SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

Chemical name	Argentina	Brazil	Chile	Colombia
Ashes, residues 68131-74-8	-	TWA: 1 mg/m <sup>3</sup>	-	-
Calcium sulfate hemihydrate 10034-76-1	-	TWA: 10 mg/m <sup>3</sup>	-	-
Calcium sulfate dihydrate	-	TWA: 10 mg/m <sup>3</sup>	-	-

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10101-41-4				
Wollastonite 13983-17-0	-	TWA: 1 mg/m <sup>3</sup>	-	-
Bentonite 1302-78-9	-	TWA: 1 mg/m <sup>3</sup>	-	-
Cellulose 9004-34-6	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 8.8 mg/m <sup>3</sup>	-
Cement, portland, chemicals 65997-15-1	TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 8.8 mg/m <sup>3</sup>	-
Quartz 14808-60-7	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.08 mg/m <sup>3</sup>	-

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
Cellulose 9004-34-6	-	-	-	TWA: 10 mg/m <sup>3</sup>
Cement, portland, chemicals 65997-15-1	-	-	-	TWA: 10 mg/m <sup>3</sup>
Quartz 14808-60-7	-	-	-	TWA: 0.025 mg/m <sup>3</sup>

## 8.2. Exposure controls

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Hand protection** Wear suitable gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

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

**Physical state** Solid

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Appearance Powder  
Color Gray  
Odor No information available  
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable .	
Melting point / freezing point	Not applicable .	
Boiling point / boiling range	Not applicable .	
Flash point	Not applicable .	
Evaporation rate	Not applicable .	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Cement based products react and solidify in contact with water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	
Dynamic viscosity	.	

## 9.2. Other information

Explosive properties No information available  
Oxidizing properties No information available  
Solvent content (%) No information available  
Solid content (%) 100  
Softening Point Not relevant  
Molecular weight No information available  
VOC Content (%) 0 g/L / 0 %  
Density 0.4 g/cm<sup>3</sup>  
Bulk density No information available

## **10. Stability and reactivity**

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Chemical stability Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Protect from moisture. Product cures with moisture.

### 10.5. Incompatible materials

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**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Product Information

<b>Inhalation</b>	Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

#### Acute toxicity

##### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	17,232.80 mg/kg
<b>ATEmix (dermal)</b>	83,048.50 mg/kg

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cement, alumina, chemicals 65997-16-2	LD50 >2000 mg/Kg Rat	LD50 >2000 mg/Kg Rat	-
Ashes, residues 68131-74-8	>2000 mg/kg (Rattus)	-	-
Slags, ferrous metal, blast furnace 65996-69-2	LD50 >2000 mg/Kg	>4000 mg/Kg (Rattus) (OECD 402)	>5235 mg/m <sup>3</sup> Dust (OECD 403)
Calcium Sulfoaluminate Cement 960375-09-1	>2000 mg/Kg	-	-
Bentonite 1302-78-9	>5000 mg/kg (Rattus)	-	-
Cellulose 9004-34-6	>5 g/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus) > 2000 mg/kg (Oryctolagus cuniculus)	>5800 mg/m <sup>3</sup> (Rattus) 4 h
Cement, portland, chemicals 65997-15-1	LD50 >2000 mg/Kg (Rattus)	LD50 >2000 mg/Kg	-
Quartz 14808-60-7	>20000 mg/kg	-	-



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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.  
**Respiratory or skin sensitization** May cause sensitization by skin contact.  
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.  
**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ashes, residues 68131-74-8	-	Group 1	Known	X
Wollastonite 13983-17-0	-	Group 3	-	-
Cellulose 9004-34-6	-	Group 1	Known	X
Quartz 14808-60-7	A2	Group 1	Known	X

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

*A2 - Suspected Human Carcinogen*

**IARC (International Agency for Research on Cancer)**

*Group 1 - Carcinogenic to Humans*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**NTP (National Toxicology Program)**

*Known - Known Carcinogen*

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

*X - Present*

Quartz (14808-60-7)

Method	Species	Results
IARC (International Agency for Research on Cancer)	Human evidence	Carcinogenic

**Reproductive toxicity** Based on available data, the classification criteria are not met.  
**STOT - single exposure** May cause respiratory irritation.  
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.  
**Target organ effects** Eyes, Lungs, Nasal Cavities, Skin, Respiratory system, liver, kidney.  
**Aspiration hazard** Based on available data, the classification criteria are not met.  
**Other adverse effects** No information available.  
**Interactive effects** No information available.

**12. Ecological information**

**12.1. Toxicity**

**Ecotoxicity**

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Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cement, alumina, chemicals 65997-16-2	EC50 (72h)Algae (Pseudokirchneriella subcapitata) >5.6mg/L	LC50 (96h) (Onchorhynchus mykiss) >100 mg/L (OECD 203)	-	EC50 (48h) Daphnia magna =6.6mg/L (OECD 202)
Ashes, residues 68131-74-8	-	-	-	EC50: 140 - 2000mg/L (24h, Daphnia magna)
Bentonite 1302-78-9	EC50 (72h)> 100 mg/L (Desmodesmus subspicatus)	LC50: =19000mg/L (96h, Oncorhynchus mykiss) LC50: 8.0 - 19.0g/L (96h, Salmo gairdneri)	-	EC50 (48h) > 100 mg/L (Daphnia magna) OECD 202

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## 12.4. Mobility in soil

**Mobility** No information available.

## Other adverse effects

**Other adverse effects** No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

## 15. Regulatory information

### International Inventories

TSCA	Listed
DSL	Not Listed

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## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

## US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS No	SARA 313 - Threshold Values %
Ashes, residues	68131-74-8	1.0 0.1

### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## Europe

### **Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

### **SVHC: Substances of Very High Concern for Authorization:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **16. Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Prepared By** Product Safety & Regulatory Affairs.

**Revision Date:** 12-Aug-2020

**Revision note** SDS sections updated. 1. 4. 5. 6. 7. 8. 10. 11. 12.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**