

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

070412577

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070389007 070389015 070389023 070389031 070389049 070389056 070389064 070389072 070389080 070389098  
070389106 070389122 070389130 070389148 070389155 070389163 070389171 070389189 070389197 070389205  
070389213 070389221 070389254 070389262 070389270 070389288 070389296 070389304 070389312 070389320  
070389338 070389346 070389353 070412270 070412288 070412296 070412304 070412312 070412320 070412338  
070412346 070412353 070412361 070412379 070412387 070412395 070412403 070412411 070412429 070412437  
070412445 070412452 070412460 070412478 070412486 070412494 070412502 070412510 070412528 070412536  
070412544 070412551 070412569 070412585 070412593 070412601 070412619 070412627 071031806 071031921  
071035641 071041656 071041664 071044536 071059823 071059831 071059849 071059856 071059864 071059872  
071059880 071059906 071059914 071059922 071059930 071059955 071059963 071059971 071059989 071060003  
071060029 071060037 071060045 071060052 071060060 071060078 071060086 071060094 071060102 071060110  
071060128 071243864 071243872 071243880 071243898 071243906 071243914 071243922 071243930 071243948  
071244011 071244029 071244078 071244086 071244094 071244102 071244110 071244128 071244136 071244144  
071244151 071244169 071244177 071244193 071244201 071244219 071244227 071244235 071244243 071244250  
071244268 071244276 071244284 071244292 70389155 70389270

**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****MANUFACTURER**

GC AMERICA INC.  
3737 West 127th St.  
Alsip, Illinois, 60803  
Telephone: 708-597-0900  
Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.  
Transportation Emergency Telephone No. 800-424-9300

**COMMON NAME:** Ceramic block**CHEMICAL NAME:** N/A**SECTION 2 – HAZARD IDENTIFICATION****HAZARD CLASSIFICATION****FIRE:** 1      **HEALTH:** 1      **REACTIVITY:** 0      **SPECIAL:** None**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT	C.A.S.	%
Cured dental restorative	N/A	100

**SECTION 4 – FIRST AID MEASURES****EMERGENCY FIRST AID PROCEDURES:****INHALATION:** Move person to fresh air. If symptoms persist seek medical attention**INGESTION:** If symptoms develop, seek medical attention.**SKIN:** Wash affected area with soap and water. If symptoms develop, seek medical attention.**EYES:** Flush eyes with large amounts of water. Do not rub your eyes.**SECTION 5 – FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA:** Water, dry chemical, foam, carbon dioxide, powder fire extinguisher**SPECIAL FIRE FIGHTING PROCEDURES:** None**SECTION 6 – ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** N.A.**ENVIRONMENTAL PRECAUTIONS:** Do not allow product to reach sewage system or any water course.**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:** No special measures required.**SECTION 7 – HANDLING AND STORAGE****WORK/HYGIENIC PRACTICE:** Follow safe hygiene practices.**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Avoid eye contact. Avoid breathing of dust created by cutting, sanding, grinding or machining.**CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES:** No special storage requirements.**SECTION 8 - CONTROL MEASURES/PERSONAL PROTECTION****OCCUPATIONAL EXPOSURE LIMITS:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.**ENGINEERING CONTROLS:** Use in a well-ventilated area.**PERSONAL PROTECTIVE EQUIPMENT:****EYE/FACE PROTECTION:** Select and use eye/face protection to prevent contact based on the results of an exposure assessment.

The following eye/face protection(s) are recommended: Safety goggles with side shields.

**RESPIRATORY PROTECTION:** When used under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

**PROTECTIVE GLOVES:** No chemical protective gloves are required.

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

<b>GENERAL PHYSICAL FORM:</b>	Solid
<b>SPECIFIC PHYSICAL FORM:</b>	Solid block
<b>ODOR, COLOR, GRADE:</b>	Characteristic odor, tooth colored various shades
<b>ODOR THRESHOLD:</b>	N.E.
<b>PH:</b>	N.E.
<b>BOILING POINT:</b>	N.E.
<b>MELTING POINT:</b>	N.E.
<b>FLASHPOINT:</b>	N.E.
<b>FLAMMABILITY:</b>	N.E.
<b>FLAMMABLE LIMITS:</b>	N.A.
<b>VAPOR PRESSURE:</b>	N.A.
<b>DENSITY:</b>	1.8g/cm <sup>3</sup>
<b>EVAPORATION RATE:</b>	N.A.
<b>SOLUBILITY IN WATER:</b>	Negligible
<b>AUTOIGNITION TEMPERATURE:</b>	N.A.
<b>DECOMPOSITION TEMPERATURE:</b>	N.E.
<b>VISCOSITY:</b>	N.A.
<b>VOLATILE ORGANIC COMPOUNDS:</b>	N.A.

## SECTION 10- STABILITY AND REACTIVITY

**REACTIVITY:** This material is considered to be non reactive under normal use conditions.

**STABILITY:** Stable

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY (Materials to Avoid):** None known.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

## SECTION 11- TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL EFFECTS:

**SIGNS AND SYMPTOMS OF EXPOSURE:** This material may produce the following health effects.

**INHALATION:** Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**SKIN:** Signs/symptoms may include abrasion, redness, pain, and itching.

**EYES:** Dust created by cutting, grinding, sanding or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**INGESTION:** No health effects are expected.

## SECTION 12- ECOLOGICAL INFORMATION

**ECOTOXICITY:** N.E.

**RESIDUAL RESISTANCE AND DEGRADABILITY:** N.E.

**BIOACCUMULATION POTENTIAL:** N.E.

**MOBILITY IN SOIL:** N.E.

## SECTION 13- DISPOSAL CONSIDERATIONS

Dispose of contents in accordance with local, state, and federal regulations.

**SECTION 14- TRANSPORT INFORMATION**

UN NUMBER: Void

UN PROPER SHIPPING NAME: Void

TRANSPORT HAZARD CLASS: Void

PACKING GROUP: Void

ENVIRONMENTAL HAZARDS:

MARINE POLLUTANT: No

TRANSPORT/ADDITIONAL INFORMATION: Not dangerous according to the above specifications.

**SECTION 15- REGULATIONS**

CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.

**SECTION 16- OTHER INFORMATION**

*This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR*

DEPT ISSUING SDS: Regulatory Affairs

DATE PREPARED: 26 August 2014

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**N.A. = NOT APPLICABLE**

**N.E. = NOT ESTABLISHED**

*The information herein is given in good faith but no warranty expressed or implied is made.*  
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# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/04/2016

Version US-EN-Rev 1

Reviewed on 02/04/2016

## 1 Identification

- **Product identifier**
- **Trade name:** CERASMART (CEREC, Universal, PlanMill)
- **Application of the substance / the mixture** Manufacture of dental prothesis
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
GC America Inc.  
3737 W. 127th Street  
Alsip, IL 60803  
USA  
  
sds@gcamerica.com
- **Information department:** Regulatory Affairs
- **Emergency telephone number:**  
During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900  
Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
- **Additional information:**  
The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

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



Health = 0  
Fire = 0  
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

US

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

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Version US-EN-Rev 1

Reviewed on 02/04/2016

**Trade name:** CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 1)

 · **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information:**  
If a substance is marked with \*\*, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
No special measures required.  
If symptoms persist consult doctor.
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Rinse with warm water.  
If symptoms persist consult doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

(Contd. on page 3)

US

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**Trade name:** CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 2)

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Remove persons from danger area.

- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

- **Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the collected material according to regulations.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Observe instructions for use.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

- **Information about protection against explosions and fires:**

Dust can combine with air to form an explosive mixture.

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:** Observe instructions for use / storage.

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

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

- **Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Do not inhale dust / smoke / mist.

Wash hands before breaks and at the end of work.

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

(Contd. on page 4)

US

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**Trade name:** CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 3)

- **Protection of hands:** Protective gloves

- **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

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid mass

Color: According to product specification

- **Odor:** Odorless

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not determined.

- **Ignition temperature:** Undetermined.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not self-igniting.

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

- **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

- **Vapor pressure:** Not applicable.

- **Density at 20 °C (68 °F):** 1.84 g/cm<sup>3</sup> (15.355 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

Water: Insoluble.

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

- **Viscosity:**

Dynamic: Not applicable.

(Contd. on page 5)

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**Trade name:** CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 4)

<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable at ambient temperature.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No further relevant information available.
- **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.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
None of the ingredients is listed.
- **NTP (National Toxicology Program)**  
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.
- **Carcinogenic categories' legend:**  
IARC Group 1: The agent is carcinogenic to humans.  
IARC Group 2A: The agent is probably carcinogenic to humans.  
IARC Group 2B: The agent is possibly carcinogenic to humans.  
IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.  
IARC Group 4: The agent is probably not carcinogenic to humans.  
NTP K: Known to be human carcinogen.  
NTP R: Reasonably anticipated to be human carcinogen.
- **Repeated dose toxicity.** No further relevant information available.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

(Contd. on page 6)

US

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Version US-EN-Rev 1

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No further relevant information available.

(Contd. of page 5)

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

US

(Contd. on page 7)

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Trade name: CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 6)

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA (Superfund Amendments and Reauthorization Act)

· <b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients is listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
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None of the ingredients is listed.
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· <b>TSCA (Toxic Substances Control Act):</b>
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None of the ingredients is listed.
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- **Carcinogenic categories**

· <b>EPA (Environmental Protection Agency)</b>
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None of the ingredients is listed.
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· <b>TLV (Threshold Limit Value established by ACGIH)</b>
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None of the ingredients is listed.
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients is listed.
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- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

- **Department issuing SDS:** Regulatory Affairs

- **Contact:**

Regulatory Affairs

Telephone No. +1 (708) 597-0900

sds@gcamerica.com

- **Date of preparation / last revision** 02/04/2016 / -

- **Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HCS: Hazard Communication Standard (USA)

MSDS: Material Safety Data Sheet

SDS: Safety Data Sheet

ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)

ECHA: European Chemicals Agency

OSHA: Occupational Safety and Health Administration (USA)

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 8)

US

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**Trade name:** CERASMART (CEREC, Universal, PlanMill)

(Contd. of page 7)

vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit

**Sources**

- Manufacturers' MSDSs/SDSs
- OSHA (<https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html>)
- TOXNET (<http://toxnet.nlm.nih.gov/>)
- ECHA (<http://echa.europa.eu/>)
- EnviChem ([www.echemportal.org](http://www.echemportal.org))

**Notes:**

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CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.

- **\* Data compared to the previous version altered.** This version replaces all previous versions.

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