

## **SAFETY DATA SHEETS**

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

072046381

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

072045318 072046357

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

072045342

**COECAL**  
**MATERIAL SAFETY DATA SHEET**

**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 a.m.-5:00 p.m. C.S.T.  
 Transportation Emergency No. 800-424-9300

**COMMON NAME:** COECAL BUFF, COECAL WHITE  
**CHEMICAL NAME:** Modified Calcium Sulfate Hemihydrate  
**PRODUCT USE:** Dental models

**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Plaster of Paris	26499-65-0	PEL=10mg/m <sup>3</sup> TLV=15mg/m <sup>3</sup> (respirable) (OSHA) TLV=5mg/m <sup>3</sup>	N.E.	>95
Crystalline Silica	14808-60-7	TWA=0.1mg/m <sup>3</sup> (Respirable Dust) (ACGIH)	N.A.	<5

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> 1450°C (decomposes)	<b>SPECIFIC GRAVITY (H2O=1):</b> 2.7-3.0
<b>VAPOR PRESSURE:</b> N.A.	<b>MELTING POINT:</b> N.A.
<b>VAPOR DENSITY:</b> N.A.	<b>EVAPORATION RATE:</b> N.A.
<b>SOLUBILITY IN WATER:</b> 0.2%	<b>ODOR THRESHOLD:</b> N.A.
<b>COEFFICIENT OF OIL/WATER DISTRIBUTION:</b> N.E.	<b>APPEARANCE AND ODOR:</b> White to tan free flowing powder

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** None  
**EXTINGUISHING MEDIA:** Not Combustible  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Reduction of Plaster of Paris at high temperature caused violent explosion. Contact with Diazomethane vapor generates heat which can lead to detonation.  
**HAZARDOUS COMBUSTION PRODUCTS:** Above 1450°C evolves calcium oxide and sulfur dioxide

**FLAMMABLE LIMITS:** N.A.  
**SPECIAL FIRE FIGHTING PROCEDURES:** N.E.

**SECTION 5 - REACTIVITY DATA**

**STABILITY:** Stable  Unstable   
**POLYMERIZATION:** Will Not Occur  Will Occur   
**CONDITIONS TO AVOID:** Moisture (will affect usability of product)  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Acids  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N.E.

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY	X					Group 1		Calif. Prop. 65
SENSITIZER		X						

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued**

ROUTES OF ENTRY:   Inhalation                       Skin                       Ingestion

**HEALTH HAZARD (Acute and Chronic):** May cause eye irritation. When wet may develop sufficient heat to cause burns if a large mass, such as a cast of a hand or arm, is kept in contact with skin while hardening. Portland cement may irritate skin. Inhalation may cause respiratory irritation. Ingestion may cause obstruction due to setting reaction.

**CALIFORNIA PROP 65 WARNING:** This product contains crystalline silica, a chemical known to the State of California to cause cancer.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Eye irritation, coughing, sneezing, nasal irritation

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Pre-existing upper respiratory and lung diseases.

**EMERGENCY FIRST AID PROCEDURES:**

**EYES:** Flush eyes with water for 15 minutes. Seek medical attention if irritation develops.

**SKIN:** Wash with water.

**INHALATION:** Remove to fresh air.

**INGESTION:** Plaster hardens when wetted and, if ingested, may result in obstruction. Seek medical attention.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

**IN CASE OF RELEASE OR SPILL:** Sweep or vacuum material into waste container for disposal. Avoid creating dusty conditions. Do not wash into sewers. May plug drains. If already mixed with water, scrape up and wash to remove residue.

**WASTE DISPOSAL METHOD:** Follow local, state, federal regulations for inert solids.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Ensure proper ventilation. Respiratory and eye protection should be used in dusty conditions.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Provide general ventilation and local exhaust ventilation to meet TLV requirements. When dusty conditions exist wear an approved dust mask to guard against nuisance dust.

**VENTILATION:**    Local Exhaust: Yes                      Mechanical: Yes                      Special: N.A.                      Other: N.A.

**PROTECTIVE GLOVES:** Under normal conditions no protective gloves should be necessary

**EYE PROTECTION:** Goggles

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash station

**WORK/HYGIENIC PRACTICE:** Follow good hygiene practices. Avoid creating dusty conditions.

**SECTION 9- PREPARATION INFORMATION**

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

**DATE:** 09 January 2006

**REVIEWED:** 21 February 2012

N.A. = NOT APPLICABLE  
N.E. = NOT ESTABLISHED

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

.....  
NFPA  
FIRE - 0                      TOXICITY - 0                      REACTIVITY - 0                      SPECIAL -

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015




Version US-EN-Rev 1

Reviewed on 02/24/2015

## 1 Identification

- **Product identifier**
- **Trade name:** COECAL™ (Colors: Buff and White)
- **Relevant identified uses of the substance or mixture and uses advised against**  
Dental material  
The product is intended for professional use.  
To avoid risks for humans and environment obtain instructions.
- **Application of the substance / the mixture** Dental impression plaster
- **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**  
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Corr. 1C H314 Causes severe skin burns and eye damage.  
Acute Tox. 4 H312 Harmful in contact with skin.  
STOT SE 3 H335 May cause respiratory irritation.  
Eye Irrit. 2B H320 Causes eye irritation.
- **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**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  
  
GHS05 GHS07 GHS08
- **Signal word** Danger
- **Hazard statements**  
Harmful in contact with skin.

(Contd. on page 2)

USA

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

**Trade name:** COECAL™ (Colors: Buff and White)

(Contd. of page 1)

Causes severe skin burns and eye damage.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

· **Precautionary statements**

Do not breathe dusts or mists.

Wear protective gloves / protective clothing.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

26499-65-0 Plaster of paris

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

26499-65-0	Plaster of paris	90-100%
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· **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:**

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

(Contd. on page 3)

USA

# Safety Data Sheet

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Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

**Trade name:** COECAL™ (Colors: Buff and White)

(Contd. of page 2)

- **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:**  
Immediately wash with water and soap and rinse thoroughly.  
If symptoms persist consult doctor.
- **After eye contact:**  
Protect unharmed eye.  
Rinse opened eye for several minutes under running water. Then 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.
- **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.  
Avoid formation of dust.  
Avoid contact with the eyes and skin.  
Wear protective clothing.
- **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:**  
Ensure adequate ventilation.  
Pick up mechanically.  
Prevent formation of dust.  
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.

(Contd. on page 4)

USA

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

**Trade name:** COECAL™ (Colors: Buff and White)

See Section 13 for disposal information.

(Contd. of page 3)

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Observe instructions for use.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of dust.  
Do not inhale dust / smoke / mist.  
Any deposit of dust which cannot be avoided must be regularly removed.  
Avoid contact with the eyes and skin.
- **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:**

**26499-65-0 Plaster of paris**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction

- **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.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.  
Immediately remove all soiled and contaminated clothing.
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **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.

(Contd. on page 5)

USA

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: COECAL™ (Colors: Buff and White)

(Contd. of page 4)

- **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:**

<b>Form:</b>	Powder
<b>Color:</b>	Different according to coloring
· <b>Odor:</b>	Light
· <b>Odor threshold:</b>	Not determined.

- **pH-value at 20 °C (68 °F):** 8

- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

- **Flash point:** Not applicable.

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

- **Ignition temperature:** Undetermined.

- **Decomposition temperature:** Not determined.

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

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

- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapor pressure:** Not applicable.

- **Density at 20 °C (68 °F):** 2.45 g/cm<sup>3</sup> (20.445 lbs/gal)

- **Relative density** Not determined.

- **Vapour density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

<b>Water:</b>	Insoluble.
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- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.

- **Solvent content:**

<b>Organic solvents:</b>	0.0 %
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<b>Solids content:</b>	100.0 %
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(Contd. on page 6)

USA



# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

**Trade name:** COECAL™ (Colors: Buff and White)

(Contd. of page 5)

· **Other information**

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:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**  
Strong irritant with the danger of severe eye injury.  
Irritating effect.
- **Sensitization:** Sensitization possible through inhalation.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Corrosive  
Irritant
- **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.

USA

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: COECAL™ (Colors: Buff and White)

(Contd. of page 6)

## 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:** Not known to be hazardous to 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:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **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>  | -               |

USA

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

Trade name: COECAL™ (Colors: Buff and White)

(Contd. of page 7)

## 15 Regulatory information

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

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word** Danger

- **Hazard statements**

Harmful in contact with skin.

Causes severe skin burns and eye damage.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

- **Precautionary statements**

Do not breathe dusts or mists.

Wear protective gloves / protective clothing.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

## 16 Other information

- **Department issuing MSDS:** Regulatory Affairs

(Contd. on page 9)

USA

# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

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Version US-EN-Rev 1

Reviewed on 02/24/2015

**Trade name:** COECAL™ (Colors: Buff and White)

(Contd. of page 8)

· **Contact:**

Regulatory Affairs  
Telephone No. +1 (708) 597-0900  
sds@gcamerica.com

· **Date of preparation / last revision** 02/24/2015 / -

· **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  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C  
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **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:**

CAS Registry Number is a Registered Trademark of the American Chemical Society.  
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.

· **Disclaimer:**

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