

## **SAFETY DATA SHEETS**

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

072040368

**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).**

072038339 072038362 072038396 072040350

**COE ALGINATE**  
**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 am. - 5:00 pm. C.S.T.

Transportation Emergency Telephone No. 800-424-9300

**COMMON NAME:** COE ALGINATE CHERRY - FAST/NORMAL  
COE ALGINATE MINT - FAST/NORMAL**CHEMICAL NAME:** N.A.**PRODUCT USE:** Dental impression material (powder component) to be mixed with water.*The following information is provided with regard to the toxicity and hazards of the pure components present in this product.***SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Calcium Sulfate	7778-18-9	TWA=10mg/m <sup>3</sup> (ACGIH) TWA=15mg/m <sup>3</sup> (total dust) TWA=5mg/m <sup>3</sup> (respirable) (OSHA)	N.E.	7-13
Diatomaceous Earth may contain up to 70% Crystalline Silica	68855-54-9 14464-46-1	See Below TWA=0.05mg/m <sup>3</sup> (ACGIH)	N.A.	60-70 <49
Zinc oxide	1314-13-2	TWA=10mg/m <sup>3</sup> (dust) (ACGIH) TWA=5mg/m <sup>3</sup> (fume) (ACGIH) STEL=10mg/m <sup>3</sup> (ACGIH) TWA=15mg/m <sup>3</sup> (total dust) TWA=5mg/m <sup>3</sup> (respirable) (OSHA)	LD50=7.9g/kg (oral rat) LC50=N.E.	1-5
Potassium Titanium Fluoride	1619-27-5	PEL=2.5mg/m <sup>3</sup> TLV=2.5mg/m <sup>3</sup> (as fluoride) (OSHA)	N.E.	1-5
Tetra Sodium Pyrophosphate	7722-88-5	TLV=5mg/m <sup>3</sup> TWA=5mg/m <sup>3</sup> (ACGIH)	LD50=4 g/kg LC50=N.E.	1-5

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES****BOILING POINT:** N.A. **SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** >1.0**VAPOR PRESSURE:** N.A. **MELTING POINT:** N.E.**VAPOR DENSITY:** N.A. **EVAPORATION RATE:** N.A.**SOLUBILITY IN WATER:** N.E. **ODOR THRESHOLD:** N.E.**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.**APPEARANCE AND ODOR:** Pink/white free flowing powder with cherry/mint odor.**SECTION 4 - FIRE AND EXPLOSION DATA****FLASH POINT:** N.A.**FLAMMABLE LIMITS:** N.A.**EXTINGUISHING MEDIA:** Material is non-combustible. Use extinguishing media appropriate to the surrounding area.**SPECIAL FIRE FIGHTING PROCEDURES:** N.A.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Powder mixed with air may produce conditions conducive to explosion if spark source is present.**HAZARDOUS COMBUSTION PRODUCTS:** N.A.**SECTION 5 - REACTIVITY DATA****STABILITY:** Stable  Unstable **POLYMERIZATION:** Will Not Occur  Will Occur **CONDITIONS TO AVOID:** Where dust is present - sparks. Avoid high temperatures and humidity.**INCOMPATIBILITY (Materials to Avoid):** Avoid contact with hydrofluoric acid. Contact with acids liberates hydrogen fluoride gas which is toxic and corrosive.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** At elevated temperatures various fluoride compounds will be liberated, including hydrogen fluoride and potassium fluoride. At temperatures above 1450°C releases sulfur dioxide and calcium oxide.

**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				X	X		Calif. Prop. 65
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation  Skin  Ingestion

**HEALTH HAZARD (Acute and Chronic):** Contains crystalline silica, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease.

**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:** Irritation and soreness in throat and nose.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Crystalline silica, calcium sulfate may aggravate preexisting upper respiratory and lung diseases.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.

**INGESTION:** Ingestion of fluoride compounds requires medical attention. Do not induce vomiting. Dilution of ingested fluoride must be done with caution.

**SKIN:** Wash with soap and water.

**EYES:** Flush with large quantities of water. If irritation develops or persists seek medical attention.

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

**IN CASE OF RELEASE OR SPILL:** Avoid generating dust while sweeping. If an excessive amount of dust is generated use a filter equipped vacuum.

**WASTE DISPOSAL METHOD:** Dispose of waste in accordance with local, state and federal regulations.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store at room temperature and humidity.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Minimize exposure in accordance with good hygiene practice. If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes.

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

**PROTECTIVE GLOVES:** Disposable vinyl gloves

**EYE PROTECTION:** As necessary for dusts

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eyewash station

**WORK/HYGIENIC PRACTICE:** Follow routine safe hygiene practices.

**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. No warranty expressed or implied is made.*

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FIRE - 0	TOXICITY - 2	NFPA REACTIVITY - 0	SPECIAL -
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# Safety Data Sheet

acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/23/2015


Version US-EN-Rev 1

Reviewed on 04/23/2015

## 1 Identification

- **Product identifier**
- **Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)
- **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 material
- **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**  
Eye Irrit. 2A      H319 Causes serious eye irritation.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **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**  
  
GHS07
- **Signal word** Warning
- **Hazard statements**  
Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
Wear eye protection / face protection.

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# Safety Data Sheet

## acc. to OSHA HCS 29 CFR 1910.1200

Printing date 04/23/2015

Version US-EN-Rev 1

Reviewed on 04/23/2015

**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

(Contd. of page 1)

Avoid release to the environment.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

16919-27-0	dipotassium hexafluorotitanate	1-5%
1314-13-2	zinc oxide	1-5%
7722-88-5	tetrasodium pyrophosphate	1-5%

· **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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.

Do not use mouth to mouth or mouth to nose resuscitation.

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**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

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- **After skin contact:**  
Rinse with warm water.  
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:**  
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.  
See Section 13 for disposal information.

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**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

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### 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.
  - 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:**

**1314-13-2 zinc oxide**

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and fume
REL	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5* 5** mg/m <sup>3</sup> Ceiling limit value: 15* mg/m <sup>3</sup> *dust only **fume
TLV	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* 10** mg/m <sup>3</sup> *as respirable fraction **total dust

**7722-88-5 tetrasodium pyrophosphate**

REL	Long-term value: 5 mg/m <sup>3</sup>
TLV	TLV withdrawn

- **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.
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:** Protective gloves

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**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

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- **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:** Powder  
**Color:** Pink (cherry) / White (mint)

- **Odor:** Product specific

- **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 selfigniting.

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

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapor pressure:** Not applicable.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapour density** Not applicable.

- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

**Water:** Insoluble.

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

- **Viscosity:**

**Dynamic:** Not applicable.

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<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:**

**16919-27-0 dipotassium hexafluorotitanate**

Oral	LD50	324 mg/kg (rat (f+m))
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**1314-13-2 zinc oxide**

Oral	LD50	7900 mg/kg (rat (f+m))
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

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

silicon dioxide	3
C.I. Pigment Red 3	3
acetaldehyde	1

- **NTP (National Toxicology Program)**

acetaldehyde	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.
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- **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.

- **Additional carcinogenic information:**

The substance acetaldehyde is listed by IARC as a Group 1 carcinogen but associated with alcoholic beverage consumption. IARC Volume 100E (2012) "Personal Habits and Indoor Combustions" stated in its monograph "Consumption of Alcoholic Beverages" the following evaluation: "Acetaldehyde associated with the consumption of alcoholic beverages is carcinogenic to humans (Group 1)." GC products are not consumable alcoholic beverages.

When not associated with alcoholic beverage consumption, acetaldehyde is only possibly carcinogenic to humans. IARC Volume 71 (1999) (Re-evaluation of Some Organic Chemicals, Hydrazine and Hydrogen Peroxide) had in its monograph titled "Acetaldehyde" the following evaluation: "Acetaldehyde is possibly carcinogenic to humans (Group 2B)."

## 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.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:** Harmful to aquatic organisms

- **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.

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**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

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## 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>	-

## 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):**

zinc oxide

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

silicon dioxide

potassium alginate

dipotassium hexafluorotitanate

zinc oxide

tetrasodium pyrophosphate

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

zinc oxide

D, I, II

acetaldehyde

B2

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

acetaldehyde

A3

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

acetaldehyde

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# Safety Data Sheet

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**Trade name:** COE ALGINATE (Set/Flavor: Fast/Mint, Fast/Wild Cherry, Normal/Mint, and Normal/Wild Cherry)

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- **GHS label elements**

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

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

Wear eye protection / face protection.  
Avoid release to the environment.  
Wash thoroughly after handling.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
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 SDS:** Regulatory Affairs

- **Contact:**

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

- **Date of preparation / last revision** 04/23/2015 / -

- **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)  
C.I.: Colour Index  
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  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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**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.

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