## **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

072119659

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

072118362

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).

072118917 072119527 072120160



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#### 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: COE TRAY PLASTIC POWDER, BLUE - REGULAR & FAST COE TRAY PLASTIC POWDER, WHITE - REGULAR & FAST CHEMICAL NAME: N. A.

**PRODUCT USE:** Custom dental impression trays - powder component

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Zinc Stearate	557-05-1	10mg/m <sup>3</sup>	LD50=5g/kg	5-10
			(oral rat)	
			LC50=>200 mg/kg	
Benzoyl Peroxide	94-36-0	TWA=5mg/m <sup>3</sup>	N.E.	1-5
		(ACGIH)		
Dibutyl Phthalate	84-74-2	TWA=5mg/m <sup>3</sup>	N.E.	7-13
		(ACGIH)		

#### **SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

BOILING POINT:	N.E.	SPECIFIC GRAVITY:	N.E.
VAPOR PRESSURE:	N.E.	MELTING POINT:	N.E.
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER:	Insoluble	ODOR THRESHOLD:	N.E.
COEFFICIENT OF OIL/W	ATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR:	Blue/white free flowing powder

#### **SECTION 4 - FIRE AND EXPLOSION DATA**

FLASH POINT: N.E.

FLAMMABLE LIMITS: N.E.

**EXTINGUISHING MEDIA:** Water fog, foam, carbon dioxide, dry chemical **SPECIAL FIRE FIGHTING PROCEDURES:** Self contained breathing apparatus with full face piece and protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Dust explosions can occur under conditions of high dust concentration in presence of an ignition source. (Spark or open flame).

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Methyl Methacrylate; toxic Zinc Oxides.

#### SECTION 5 - REACTIVITY DATA

STABILITY: POLYMERIZATION: Stable 🖂 Will Not Occur 🖂 Unstable 🗌 Will Occur 🗌

CONDITIONS TO AVOID: High heat, flames, sparks INCOMPATIBILITY (Materials to Avoid): N.E. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.



Other: N.E.

#### MS240004

### **COE TRAY PLASTIC - POWDER**

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

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		Х						
TERATOGENIC AFFECTS		Х						
REPRODUCTIVE TOXIN		Х						
CARCINOGENICITY		Х						
SENSITIZER		Х						

ROUTES OF ENTRY: Inhalation Skin Skin Ingestion

HEALTH HAZARD (Acute and Chronic): May cause respiratory congestion due to dust. SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E. CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

#### **EMERGENCY FIRST AID PROCEDURES:**

INHALATION: Remove victim to fresh air.

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

**EYES:** Flush eyes with water. If redness, itching, or a burning sensation develops, seek medical attention. **INGESTION:** Give one or two glasses of water to drink. If gastrointestinal distress develops, seek medical attention.

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

**IN CASE OF RELEASE OR SPILL:** Sweep up and recover or mix material with moist absorbent and shovel into waste container. Wash spill area with hot water and detergent.

**WASTE DISPOSAL METHOD:** In accordance with local, state, federal regulations.

**STORAGE**, **HANDLING**, **AND SPECIAL PRECAUTIONS**: Store in a cool dry place; keep away from heat or open flame.

Mechanical: N.E.

#### **SECTION 8 - CONTROL MEASURES**

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

Special: N.E.

VENTILATION: Local Exhaust: Yes

**PROTECTIVE GLOVES:** Disposable vinyl gloves

**EYE PROTECTION:** Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station

WORK/HYGIENIC PRACTICE: Follow good hygiene practices. Handle carefully to avoid creating dusts.

#### 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

FIRE - 1	TOXICITY - 1	NFPA REACTIVITY - 1	SPECIAL - OXY	
The information herein is gi	ven in good faith but no warranty expr	essed or implied is made.		
N.A. = NOT APPLICABL N.E. = NOT ESTABLISH				
				••
<b>REVIEWED:</b> 29 Janua	ary 2009			
DATE: <u>09 January 2006</u>	· ·			



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- 1 Identification
- Product identifier
- Trade name: COE TRAY PLASTIC (Powder, Shade: White)
- · 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

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 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



- · Signal word Warning
- · Hazard-determining components of labeling: dibutyl phthalate dibenzoyl peroxide Hazard statements
- May cause an allergic skin reaction.
- Precautionary statements Contaminated work clothing must not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

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### Trade name: COE TRAY PLASTIC (Powder, Shade: White)

(Contd. of page 1) Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1 Fire = 1Reactivity = 1 The substance possesses oxidizing properties. · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 1 Fire = 1 FIRE Reactivity = 1 **REACTIVITY** 1 · 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:			
557-05-1	zinc distearate, pure	5-10%	
84-74-2	dibutyl phthalate	1-5%	
57-11-4	stearic acid	1-5%	
94-36-0	dibenzoyl peroxide	< 1%	
Addition	al information.		

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.

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. Seek medical treatment.

### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- · 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 Allergic reactions
- Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
   CO2, 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
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · 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.

### 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.

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### Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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### Trade name: COE TRAY PLASTIC (Powder, Shade: White)

· 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### 557-05-1 zinc distearate, pure

- 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
- TLV Long-term value: 10 mg/m<sup>3</sup>

#### 84-74-2 dibutyl phthalate

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

#### 57-11-4 stearic acid

- TWA Long-term value: 10\* mg/m<sup>3</sup>
  - \*Total dust for nuisance particulates

· 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.

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· 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

Information on basic physical and c General Information	hemical properties
Appearance: Form:	Powder
Color:	White
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 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: Upper:	0.1 Vol % 2.0 Vol %
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	0.0.%
Organic solvents: Water:	0.0 % 0.4 %
Solids content:	100.0 %

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· 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: Reacts with strong acids.
- Hazardous decomposition products: Carbon monoxide Flammable gases/vapors Poisonous gases/vapors Carbon dioxide

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

84-74-2 dibutyl phthalate

Oral LD50 8000 mg/kg (rat (f+m))

Dermal LD50 20000 mg/kg (rabbit)

#### Primary irritant effect:

- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
- · Carcinogenic categories

<ul> <li>IARC (International Agency for Research on Cancer)</li> </ul>	
MV 702 (PC 90) Powder	3
dibenzoyl peroxide	3
titanium dioxide	2B
· 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:	
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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.
- No further relevant information available.

### **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.

· UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	

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<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Anne MARPOL73/78 and the IBC Code</li> </ul>	•x II of Not applicable.	
UN "Model Regulation":	Void	

#### 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 ingredients is listed.

· Section 313 (Specific toxic chemical listings):

zinc distearate, pure

dibutyl phthalate

dibenzoyl peroxide

• **TSCA (Toxic Substances Control Act):** All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)	
zinc distearate, pure	D, I, II
dibutyl phthalate	D
<ul> <li>TLV (Threshold Limit Value established by ACGIH)</li> </ul>	
dibenzoyl peroxide	A4
titanium dioxide	A4
<ul> <li>NIOSH-Ca (National Institute for Occupational Safety and Health)</li> </ul>	

titanium dioxide

· GHS label elements

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



· Signal word Warning

• Hazard-determining components of labeling: dibutyl phthalate dibenzoyl peroxide

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### Trade name: COE TRAY PLASTIC (Powder, Shade: White)

(Contd. of page 8) Hazard statements May cause an allergic skin reaction. · Precautionary statements Contaminated work clothing must not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves. Wash contaminated clothing before reuse. If skin irritation or rash occurs: 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 05/09/2016 / - 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 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 **BEI: Biological Exposure Limit** Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 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) · 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.

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

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