SAFETY DATA SHEETS

This SDS packet was issued with item:

072118917

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).

072119527



MS240004

COE TRAY PLASTIC - POWDER MATERIAL SAFETY DATA SHEET

Page 1 of 2

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 ³	LD50=5g/kg	5-10
			(oral rat)	
			LC50= >200 mg/kg	
Benzoyl Peroxide	94-36-0	TWA=5mg/m ³	N.E.	1-5
		(ACGIH)		
Dibutyl Phthalate	84-74-2	TWA=5mg/m ³	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:InsolubleODOR THRESHOLD:N.E.

COEFFICIENT OF OIL/WATER 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).

ignition source. (Spark of open manie).

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

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: High heat, flames, sparks **INCOMPATIBILITY (Materials to Avoid):** N.E.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.



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COE TRAY PLASTIC - POWDER

Page 2 of 2

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						
SENSITIZER		X						

ROUTES OF ENTRY: Inhalation 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.

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.

VENTILATION: Local Exhaust: Yes Mechanical: N.E. Special: N.E. Other: N.E.

PROTECTIVE GLOVES: Disposable <u>vinyl</u> 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

DATE: 09 January 2006 REVIEWED: 29 January 2009

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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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NFPA

FIRE - 1 TOXICITY - 1 REACTIVITY - 1 SPECIAL - OXY



Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/17/2015

1 Identification

- · Product identifier
- · Trade name: COE TRAY PLASTIC (Powder, Shade: 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 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 Irrit. 2 H315 Causes skin irritation.

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

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



GHS07

- · 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 1)

· Hazard statements

Causes skin and eye irritation.

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.

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

Wash contaminated clothing before reuse.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1 Fire = 1 Reactivity = 1

The substance possesses oxidizing properties.

HMIS-ratings (scale 0 - 4)



Health = 1 Fire = 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:			
84-74-2	dibutyl phthalate	10-20%	
557-05-1	zinc distearate, pure	5-10%	
57-11-4	stearic acid	1-5%	
94-36-0	dibenzoyl peroxide	< 1%	

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.

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

(Contd. of page 2)

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:

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 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.

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

(Contd. of page 3)

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Observe instructions for use.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

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

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

Information about protection against explosions and fires:

Keep respiratory protective device available.

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:				
84-74	74-2 dibutyl phthalate			
PEL	Long-term value: 5 mg/m³			
REL	Long-term value: 5 mg/m³			
TLV	Long-term value: 5 mg/m³			
557-0	5-1 zinc distearate, pure			
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction			
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction			
TLV	Long-term value: 10 mg/m³			
57-11	57-11-4 stearic acid			
PEL	Long-term value: 5* 15** mg/m³ *Respirable dust **Total dust			
TWA	Long-term value: 10* mg/m³ *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.

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

(Contd. of page 4)

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.

Store protective clothing separately.

- · 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.

· 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:	White

Odor: CharacteristicOdor 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:
 0.1 Vol %

 Upper:
 2.0 Vol %

· Vapor pressure: Not applicable.

Density: Not determined.

Relative density

Not determined.

Not determined.

Not applicable.

Evaporation rate Not applicable.

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

		(Contd. of page 5
· Solubility in / Miscibility with Water:	Insoluble.	
Partition coefficient (n-octano	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	0.4 %	
Solids content:	100.0 %	
· 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	84-74-2 dibutyl phthalate			
ľ	Oral	LD50	8000 mg/kg (rat (f+m))		
	Dermal	LD50	20000 mg/kg (rabbit)		

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

İrritant

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

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· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
poly(methyl methacrylate)	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:

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.

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.

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

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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):
- dibutyl phthalate
- zinc distearate, pure
- dibenzoyl peroxide
- TSCA (Toxic Substances Control Act):
- All ingredients are listed.
- · Carcinogenic categories

· EPA (Environmental Protection Agency)	
dibutyl phthalate	D
zinc distearate, pure	D, I, II

TLV (Threshold Limit Value established by ACGIH)

dibenzoyl peroxide	A4
titanium dioxide	A4

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

titanium dioxide

GHS label elements

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

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

(Contd. of page 8)

Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labeling:

dibutyl phthalate

dibenzoyl peroxide

· Hazard statements

Causes skin and eye irritation.

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.

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

Wash contaminated clothing before reuse.

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 04/20/2015 / -

· 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

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

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

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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.

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

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