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Printing date 04/20/2015

Version US-EN-Rev 1

Reviewed on 04/19/2015

1 Identification

- · Product identifier
- Trade name: COE TRAY PLASTIC (Liquid, Set: Fast)

• 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

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory 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



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| · Signal wor | (Contd. of page 1 |
|--------------------------------|--|
| • | - |
| | ermining components of labeling: |
| | acrylate (MMA) |
| methanol | |
| accelerant* | |
| · Hazard sta | |
| | nable liquid and vapor. |
| Toxic if swa | |
| | ontact with skin or if inhaled. |
| Causes ski | |
| | ous eye irritation. |
| | an allergic skin reaction. |
| | respiratory irritation. |
| | ary statements |
| | from heat/sparks/open flames/hot surfaces No smoking. |
| | tive gloves / eye protection / face protection. |
| | : Immediately call a poison center/doctor. |
| | r hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| | inse cautiously with water for several minutes. Remove contact lenses, if present and easy |
| to do. Conti | |
| Store locke | |
| | contents/container in accordance with local/regional/national/international regulations. |
| Classificat | |
| · NFPA ratin | gs (scale 0 - 4) |
| | Health = 2 |
| | Fire = 3 |
| 2 | Reactivity = 2 |
| UMIS ratio | gs (scale 0 - 4) |
| minio-ratin | |
| HEALTH | Health = 2 |
| FIRE | Fire = 3 |
| REACTIVITY | Reactivity = 2 |
| | |
| Other haza | |
| | PBT and vPvB assessment |
| • PBT: Not a | oplicable. |
| • vPvB: Not | ipplicable. |
| | |
| | |
| S Composi | tion/information on ingredients |
| | |
| | haracterization: Mixtures |
| · Descriptio | : Mixture of the substances listed below with nonhazardous additions. |
| | components: |

| · Dangerous components: | | |
|-------------------------|---------------------------|----------------|
| 80-62-6 | methyl methacrylate (MMA) | 90-100% |
| 67-56-1 | methanol | 1-5% |
| | accelerant** | 1-5% |
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| | | 1.10 |

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· Additional information:

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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 or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

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

• 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: Do not induce vomiting; immediately call for medical help. Rinse out mouth and then drink plenty of water.
- · 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, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water
- 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:

Mouth respiratory protective device.

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.

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(Contd. of page 3) Keep away from ignition sources 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. Absorb liquid components with liquid-binding material. 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. Ensure good ventilation/exhaustion at the workplace. Do not inhale dust / smoke / mist. Prevent formation of aerosols. Avoid contact with the eyes and skin.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Do not spray on a naked flame or any incandescent material.
- Storage: Store only in the original receptacle.
 Requirements to be met by storerooms and receptacles: Store in a cool location.
 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. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.
 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:

80-62-6 methyl methacrylate (MMA)

PEL Long-term value: 410 mg/m³, 100 ppm

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| TLV 5 1 67-56-1 PEL 5 REL 5 1 2 3 5 5 5 6 6 6 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 | Long-term value: 410 mg/m³, 100 ppm Short-term value: 410 mg/m³, 100 ppm Long-term value: 205 mg/m³, 50 ppm (SEN) NIC-DSEN methanol Long-term value: 260 mg/m³, 200 ppm Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 328 mg/m³, 250 ppm Long-term value: 328 mg/m³, 200 ppm Skin; BEI |
|--|--|
| Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: center;"//////////////////////////////////// | Long-term value: 205 mg/m³, 50 ppm (SEN) NIC-DSEN methanol Long-term value: 260 mg/m³, 200 ppm Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 328 mg/m³, 250 ppm |
| (67-56-1 PEL L REL S L S TLV S L S accelera | (SEN) NIC-DSEN methanol Long-term value: 260 mg/m ³ , 200 ppm Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm |
| 67-56-1 PEL L REL S TLV S L accelera | methanol Long-term value: 260 mg/m³, 200 ppm Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm |
| REL S L TLV S accelera | Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm |
| TLV S accelera | Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm |
| TLV S | Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm |
| TLV S L accelera | Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm |
| accelera | Long-term value: 262 mg/m³, 200 ppm |
| accelera | |
| accelera | |
| | |
| WFFIII | Long-term value: 0.5 ppm |
| | |
| - | ents with biological limit values: |
| | methanol |
| BEI 15 r | mg/L dium: urine |
| | ne: end of shift |
| | ameter: Methanol (background, nonspecific) |
| Wash ha Keep aw Immedia Breathin Protecti Material The sele quality a substand be check | ontact with the eyes and skin. ands before breaks and at the end of work. way from foodstuffs, beverages and feed. ately remove all soiled and contaminated clothing. ng equipment: Suitable respiratory protective device recommended. ion of hands: Protective gloves I of gloves ection of the suitable gloves does not only depend on the material, but also on further marks and varies from manufacturer to manufacturer. As the product is a preparation of sever ces, the resistance of the glove material can not be calculated in advance and has therefore ked prior to the application. tion time of glove material |
| to be obs | |
| ⊏ye pro | tection: Safety glasses |
| Physic | al and chemical properties |

- Appearance: Form:
 - Color:

Fluid According to product specification

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| | (Contd. of page 5 |
|--|---|
| Odor: | Characteristic |
| Odor threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: Boiling point/Boiling range: | Undetermined. Undetermined. |
| Flash point: | 10 °C (50 °F) |
| • | |
| Flammability (solid, gaseous): | Not applicable. |
| Ignition temperature: | Undetermined. |
| Decomposition temperature: | Not determined. |
| Auto igniting: | Product is not selfigniting. |
| Danger of explosion: | Heating may cause an explosion. Product is not explosive. However, formation of explosive air vapor mixtures are possible. |
| Explosion limits: | |
| Lower: | 2.1 Vol % |
| Upper: | 12.5 Vol % |
| Vapor pressure: | Not determined. |
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with | |
| Water: | Insoluble. |
| Partition coefficient (n-octanol/wa | iter): Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Solvent content: | |
| Organic solvents: | 2.6 % |
| VOC content: Other information | 100.0 % |
| Other information | No further relevant information available. |

10 Stability and reactivity

· Reactivity Danger of polymerization.

- Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Spontaneous polymerization can be caused in unstabilized product e.g. by ambient heat. Danger of receptacles bursting because of high vapor pressure if heated. Exothermic polymerization.

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(Contd. of page 6) • Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. - No smoking. • Incompatible materials:

Reacts with peroxides and other radical forming substances. Reacts with amines. Reacts with heavy metals.

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:

accelerant**

| | - | |
|------------|----------|--------------------------|
| Oral | | 1650 mg/kg (rat (f+m)) |
| | | > 2000 mg/kg (rat (f+m)) |
| Inhalative | LC50/4 h | 254 mg/l (rat (f+m)) |

· 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:

Irritant

· Carcinogenic categories

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

methyl methacrylate (MMA)

hydroquinone (HQ)

· 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.

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- · 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, IMDG, IATA | UN1993 |
|-----------------------------------|---|
| UN proper shipping name | |
| DOT | Flammable liquids, n.o.s. (Methyl methacrylate monome stabilized, Methanol) |
| ADR | 1993 Flammable liquids, n.o.s. (Methyl methacrylat monomer, stabilized, Methanol), special provision 640D |
| IMDG, IATA | FLAMMABLE LIQUID, N.O.S. (METHY METHACRYLATE MONOMER, STABILIZED METHANOL) |
| — | |
| Transport hazard class(es) | |
| Transport hazard class(es) DOT | |
| | |
| DOT FLAMMARE COURT | 3 Flammable liquids |
| DOT Class | 3 Flammable liquids 3 |
| рот | • |
| DOT V Class Label | • |

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| | (Contd. of page |
|---|--|
| Label | 3 |
| IMDG, IATA | |
| | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| Packing group | |
| · DOT, ADR, IMDG, IATA | II |
| Environmental hazards: | |
| · Marine pollutant: | No |
| Special precautions for user | Warning: Flammable liquids |
| [·] Danger code (Kemler): · EMS Number: | 33 F-E,S-E |
| | · |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | x II of Not applicable. |
| · Transport/Additional information: | |
| [·] ADR [·] Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| ·IMDG | |
| Limited quantities (LQ) | 1L |
| Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN1993, Flammable liquids, n.o.s. (Methyl methacrylat monomer, stabilized, Methanol), special provision 640E 3, II |

15 Regulatory information

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

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

methyl methacrylate (MMA)

methanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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Carcinogenic categories · EPA (Environmental Protection Agency) E, NL methyl methacrylate (MMA) • TLV (Threshold Limit Value established by ACGIH) methyl methacrylate (MMA) A4 hydroquinone (HQ) A3 · 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 GHS02 GHS06 · Signal word Danger · Hazard-determining components of labeling: methyl methacrylate (MMA) methanol accelerant** · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves / eye protection / face protection. If swallowed: Immediately call a poison center/doctor. 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. 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 SDS: Regulatory Affairs
- Contact: Regulatory Affairs

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

· Date of preparation / last revision 04/20/2015 / -

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(Contd. of page 10) 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 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eve Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, 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) · 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: The information contained herein is believed to be true and accurate. However, all statements,

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