SAFETY DATA SHEETS

This SDS packet was issued with item:

073262359

N/A



Printing date 04/21/2015

Version US-EN-Rev 1

Reviewed on 04/20/2015

1 Identification

- · Product identifier
- Trade name: ISO FUNCTIONAL (Sticks)

• 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

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Acute Tox. 4 H302 Harmful if swallowed.

· 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 GHS08

- · Signal word Danger
- Hazard-determining components of labeling:
 4-tert-butylbenzoic acid iron(III) oxide
- Hazard statements Harmful if swallowed.

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May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Precautionary statements	
[In case of inadequate ventilation] wear respiratory protection.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell.	
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for	or breathing
Dispose of contents/container in accordance with local/regional/national/internationa	
Classification system:	0
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 1	
2 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 Health = 2	
FIRE 1 Fire = 1	
Reactivity 0 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:

2		
98-73-7	4-tert-butylbenzoic acid	25-50%
14807-96-6	talc (Mg3H2(SiO3)4)	25-50%
57-11-4	stearic acid	1-5%
1309-37-1	iron(III) oxide	1-5%
Additional 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:

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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- After skin contact:
- Rinse with warm water.
- If symptoms persist consult doctor.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, 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
- 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: 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

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. Wear protective clothing. Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities. 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 personal protection equipment. See Section 13 for disposal information.
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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.
 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

1480	7-96-6 talc (Mg3H2(SiO3)4)
PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL	Long-term value: 2* mg/m ³ *respirable dust
TLV	Long-term value: 2* mg/m³ *as respirable fraction; E
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
1309-	37-1 iron(III) oxide
PEL	Long-term value: 10* 15** 5*** mg/m³ *Fume; Rouge: **Total dust, ***respirable
REL	Long-term value: 5 mg/m³ Dust & fume, as Fe
TLV	Long-term value: 5* mg/m³ *as respirable fraction

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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. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. 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

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: Solid Color: Red · Odor: Odorless · 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. Not determined. Upper: · Vapor pressure: Not applicable. · Density: Not determined. · Relative density Not determined. (Contd. on page 6)

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· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octano	I/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
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:** 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:

98-73-7 4-tert-butylbenzoic acid

Oral	LD50	568 mg/kg (mouse)
Dermal	LD50	300 mg/kg (rat (f+m))
Inhalative	LC50/4 h	1802 mg/l (rat (f+m))

Primary irritant effect:

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

 IARC (International Agency for Research on Cancer) 	
talc (Mg3H2(SiO3)4)	2B
iron(III) oxide	3
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· 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:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- 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	

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· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
Class	Void	
 Packing group DOT, ADR, IMDG, IATA 	Void	
· Environmental hazards:		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex	(II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	-	

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):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

talc (Mg3H2(SiO3)4)

iron(III) oxide

· 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



Signal word Danger

• **Hazard-determining components of labeling:** 4-tert-butylbenzoic acid iron(III) oxide

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Hazard statements

Harmful if swallowed.

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

· Precautionary statements

[In case of inadequate ventilation] wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapors/spray

If experiencing respiratory symptoms: Call a poison center/doctor.

If swallowed: Call a poison center/doctor if you feel unwell.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. 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 04/21/2015 / -· 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 Resp. Sens. 1: Sensitisation - Respirat., 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. · Disclaimer: The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express

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