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Version US-EN-Rev 1

Reviewed on 03/31/2015

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1 Identification

· Product identifier

· Trade name: Miracle Mix (Liquid)

Miracle Mix CAPSULE (Liquid)

· 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 filling 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 Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

• 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 Danger

- Hazard-determining components of labeling: polybasic carboxylic acid**
- · Hazard statements

Causes severe skin burns and eye damage.

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	Miracle	Mix	CAPSULE (L	iquid)

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Precautionary statements
Do not breathe dusts or mists.
Wear eye protection / face protection.
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.
Immediately call a poison center/doctor.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification system:
NFPA ratings (scale 0 - 4)
Health = 2
Fire = 0
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE0Fire = 0REACTIVITY0Reactivity = 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:

polybasic carboxylic acid**

10-20%

· 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.

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 After eye contact: Protect unharmed eye. Rinse opened eye for several minutes under running water. Call a doctor immediately.

• 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: 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 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:
Use neutralizing agent.
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.

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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 aerosols.
- Avoid contact with the eyes and skin.
- · Information about protection against explosions and fires: No special measures required.
- · 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. Keep receptacle tightly sealed.
- 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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.
- 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
- · 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

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Physical and chemical prope	erties	
· Information on basic physical and chemical properties · General Information		
Appearance:		
Form:	Liquid	
Color: Odor:	Light yellow Odorless	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	1.9	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
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 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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	45.5 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

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· 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: No further relevant information available.
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

poly(acrylic acid)

• 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.

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· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· 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	
· 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":	-	

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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)

None of the ingredients is listed.

· 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: polybasic carboxylic acid**
- · Hazard statements
- Causes severe skin burns and eye damage.
- · Precautionary statements
- Do not breathe dusts or mists.

Wear eye protection / face protection.

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.

Immediately call a poison center/doctor.

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

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Contact:	
Regulatory Affairs	
Telephone No. +1 (708) 597-0900	
sds@gcamerica.com	
Date of preparation / last revision 03/31/201	5/-
Abbreviations and acronyms:	
GHS: Globally Harmonized System of Classification and L	_abelling of Chemicals
HCS: Hazard Communication Standard (USA)	
MSDS: Material Safety Data Sheet SDS: Safety Data Sheet	
ADN: Accord européen relatif au transport international (European Agreement Concerning the International Carria	des marchandises dangereuses par voies de navigation intérieures age of Dangerous Goods by Inland Waterways)
ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (L	
ADR: Accord européen sur le transport des marchand International Carriage of Dangerous Goods by Road)	ises dangereuses par Route (European Agreement concerning the
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 America	n 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 Corr. 1A: Skin corrosion/irritation, Hazard Category 1	۵
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category	
Sources	
 Manufacturers' MSDSs/SDSs 	
OSHA (https://www.osha.gov/dts/chemicalsar	mpling/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 Tradem CHEMTREC® is a registered service mark of t	
* Data compared to the previous version alt	ered. This version replaces all previous versions.
Disclaimer:	
	ed to be true and accurate. However, all statements, ithout any guarantee, representation or warranty, express

recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.



Version US-EN-Rev 1 Reviewed on 03/31/2015 Printing date 03/31/2015 **1** Identification Product identifier • Trade name: Miracle Mix CAPSULE (Mixture of Alloy and Glass Ionomer Powder) 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 filling 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 The product is not classified according to the Globally Harmonized System (GHS).

· 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 Void
- · Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHImage: OFIREImage: OREACTIVITYReactivity = 0

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Trade name: Miracle Mix CAPSULE (Mixture of Alloy and Glass Ionomer Powder)

(Contd. of page 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:		
7440-22-4	silver	25-50%
7440-31-5	tin	10-20%
7440-50-8	copper	5-10%

• 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: No special measures required. 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: 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:

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:

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

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Trade name: Miracle Mix CAPSULE (Mixture of Alloy and Glass Ionomer Powder)

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• 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.
- 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:

 Pick up mechanically.
 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.

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:

7440-22-4 silver

PEL Long-term value: 0.01 mg/m³

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REL	Long-term value: 0.01 mg/m ³	(Contd. of page 3)		
TLV Long-term value: 0.1 mg/m ³				
	metal: dust and fume			
7440-31-5 tin				
PEL	Long-term value: 2 mg/m ³			
	metal			
	Long-term value: 2 mg/m ³			
TLV	Long-term value: 2 mg/m ³ metal			
7440	-50-8 copper			
PEL	Long-term value: 1* 0.1** mg/m ³			
	as Cu *dusts and mists **fume			
REL	Long-term value: 1* 0.1** mg/m ³			
 ,	as Cu *dusts and mists **fume			
ILV	Long-term value: 1* 0.2** mg/m ³			
ا د ام ۸	*dusts and mists; **fume; as Cu	were valid during the creation were used as basis.		
	h hands before breaks and at the			
Brea Prote Mate The quali subs be ch Pene The to be	Athing equipment: Suitable respire ection of hands: Protective glove erial of gloves selection of the suitable gloves do ity and varies from manufacture stances, the resistance of the glov hecked prior to the application. etration time of glove material	ratory protective device recommended. es oes not only depend on the material, but also on further marks of er to manufacturer. As the product is a preparation of severa re material can not be calculated in advance and has therefore to		
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Brea Prote Mate The s quali subs be ch Pene The c to be Eye p Phy Infor Gene For Co	athing equipment: Suitable respir ection of hands: Protective glove selection of the suitable gloves do ity and varies from manufacture stances, the resistance of the glove hecked prior to the application. etration time of glove material exact break through time has to be observed. protection: Safety glasses rsical and chemical proper rmation on basic physical and c eral Information earance: rm: blor:	ratory protective device recommended. es bes not only depend on the material, but also on further marks of er to manufacturer. As the product is a preparation of several re material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has rties rties Powder Light grey		
Brea Prote Mate The subs be ch Pene The to be Eye Phy Infor Gene Appe Foi Co	athing equipment: Suitable respir ection of hands: Protective glove erial of gloves selection of the suitable gloves do ity and varies from manufacture stances, the resistance of the glove hecked prior to the application. etration time of glove material exact break through time has to be observed. protection: Safety glasses rsical and chemical proper rmation on basic physical and c eral Information earance: rm: blor: r:	ratory protective device recommended. es bes not only depend on the material, but also on further marks of er to manufacturer. As the product is a preparation of several re material can not be calculated in advance and has therefore to be found out by the manufacturer of the protective gloves and has rties rties Powder Light grey Odorless		
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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: Upper:	Not determined. Not determined.		
· Vapor pressure:	Not applicable.		
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not applicable. Not applicable.		
 Solubility in / Miscibility with Water: 	Insoluble.		
· Partition coefficient (n-octanol/water): Not determined.			
 Viscosity: Dynamic: Kinematic: 	Not applicable. Not applicable.		
 Solvent content: Organic solvents: 	0.0 %		
Solids content: • Other information	100.0 % 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: No further relevant information available.

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US

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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Trade name: Miracle Mix CAPSULE (Mixture of Alloy and Glass Ionomer Powder)

(Contd. of page 5) · Primary irritant effect: · on the skin: No irritant effect. on the eye: No irritating effect. · Sensitization: No sensitizing effects known. · Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations: · Carcinogenic categories · IARC (International Agency for Research on Cancer) antimony nickel titanium oxide yellow iron(III) oxide • 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:** Smaller quantities can be disposed of with household waste.

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LIS

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· 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
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.

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):

silver

copper

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)	
silver	D
copper	D
 TLV (Threshold Limit Value established by ACGIH) 	
antimony nickel titanium oxide yellow	A4
iron(III) oxide	A4
 NIOSH-Ca (National Institute for Occupational Safety and Health) 	
None of the ingredients is listed.	
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- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 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 03/31/2015 / -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 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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