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Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

- · Product identifier
- · Trade name: GRADIA DIAPOLISHER
- · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · 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 identification

· Classification of the substance or mixture

Eye Irritation - Category 2B	H320	Causes eye irritation.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

· 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

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.

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

Hazard pictograms



- · Signal word Warning
- Hazard statements
 Causes eye irritation.
 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements** Wash thoroughly after handling. Avoid release to the environment.

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(Contd. of page 1) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations. • Additional information:

20 % of the mixture consists of an ingredient or ingredients of unknown acute toxicity.

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



· HMIS-ratings (scale 0 - 4)

HEALTH 1	Health = 1
FIRE 0	1 110 - 0
REACTIVITY 0	Reactivity = 0

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 1314-13-2	zinc oxide	10 - 30% w/w	
CAS: 112926-00-8	silicon dioxide, amorphous	10 - 30% w/w	
CAS: 14807-96-6	talc (Mg3H2(SiO3)4)	10 - 30% w/w	
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· 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:

Rinse with warm water.

If symptoms persist consult doctor.

After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

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· After swallowing:

Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting 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.
 Avoid contact with the eyes and skin.
 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.
- \cdot Methods and material for containment and cleaning up:
- Pick up mechanically. Prevent formation of dust.

Dispose of the collected material according to regulations.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· Handling:

• **Precautions for safe handling** Observe instructions for use. Prevent formation of dust.

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Any deposit of dust which cannot be avoided must be regularly removed.
Avoid contact with the eyes and skin.

• Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture.

- · Conditions for safe storage, including any incompatibilities
- · 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

· Cor	nponents with limit values that require monitoring at the workplace:
CAS	S: 1314-13-2 zinc oxide
EL	Short-term value: 10 mg/m ³ Long-term value: 2 mg/m ³
EV	Short-term value: 10 mg/m ³ Long-term value: 2 mg/m ³ respirable
CAS	S: 112926-00-8 silicon dioxide, amorphous
EL	Long-term value: 4* 1.5** mg/m ³ Precipitated and gel;*total;**respirable
EV	Long-term value: 10 mg/m ³
	S: 14807-96-6 talc (Mg3H2(SiO3)4)
EL	Long-term value: 2 *0.1 f/cc mg/m ³ resp. *if contains asbestos : ACGIH A1, IARC 1
EV	Long-term value: 2* mg/m ³ , 2 f/cc ppm *respirable
· Ado	ditional information: The lists that were valid during the creation were used as basis.
• Per • Ger The Do Avo Wa Imn	posure controls sonal protective equipment: meral protective and hygienic measures: e usual precautionary measures for handling chemicals should be followed. not inhale dust / smoke / mist. nid contact with the eyes and skin. sh hands before breaks and at the end of work. nediately remove all soiled and contaminated clothing. athing equipment:
	Suitable respiratory protective device recommended.

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· 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:	Solid
Color:	White
· 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 self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Insoluble.
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Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
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:

CAS: 1314-13-2 zinc oxide

Oral LD50 7,900 mg/kg (rat (f+m))

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

· 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)

silicon dioxide, amorphous

talc (Mg3H2(SiO3)4)

· NTP (National Toxicology Program)

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.

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NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen. • Repeated dose toxicity. No further relevant information available.

 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available.
 No further relevant information available.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Very toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms
- · 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: Dispose of contents / container in accordance with local / regional / national / international regulations.
- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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

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

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

zinc oxide

· TSCA (Toxic Substances Control Act):

zinc oxide

japan wax

talc (Mg3H2(SiO3)4)

diamond

octadecan-1-ol

· Canadian substance listings:

Canadian Domestic Substances List (DSL)

zinc oxide japan wax

talc (Mg3H2(SiO3)4)

diamond

octadecan-1-ol

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

zinc oxide

· GHS label elements

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

Hazard pictograms



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 Signal word Warning Hazard statements Causes eye irritation. Very toxic to aquatic life with long lasting effects. Precautionary statements Wash thoroughly after handling. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage. 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 03/13/2018 / - Abbreviations and acronyms: GHS: Globally Harmonized System of Classification and Labelling of Chemicals HGS: Hazard Communication Standard (USA) MSDS: Material Safety Data Sheet SDS: Safety Data Sheet SDT: Us Department On Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) LGS: Lethal dose, 50 percent P3T: Persistent, Bioaccumulative and Toxic rVRS: very Persistent and very Bioaccumulative Sources Manufacturers' MSDSs/SDSs • OSHA (https://toxnet.nlm.nih.gov/) • ECHA (http://toxnet.nlm.nih.gov/) • EnviChem (www.echemportal.org) Motesu 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
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