SAFETY DATA SHEETS

This SDS packet was issued with item:

073260015

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).

073259058 073259082 073259090 073259991 073260007 073260023 073260031 073263449 073263456 073263464 073263472 073263480



MS137800

EXAFLEX - EXAMIX - EXAFAST - BASE ALL 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 am. - 5:00 pm. C.S.T. Transportation Emergency No. 800-424-9300

COMMON NAME: EXAFLEX BASE: INJECTION/REGULAR/MONOPHASE/HEAVY BODY

EXAMIX BASE: INJECTION/REGULAR/MONOPHASE/HEAVY BODY - CARTRIDGE EXAMIX NDS BASE: INJECTION/REGULAR/MONOPHASE/HEAVY BODY - CARTRIDGE EXAFAST NDS BASE: INJECTION/REGULAR/MONOPHASE/HEAVY BODY - CARTRIDGE

CHEMICAL NAME: N.A.

PRODUCT USE: Dental Impression Material

The following information is provided with regard to the toxicity and hazards the pure components present in this portion of the unmixed two

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Silica-Amorphous	112926-00-8	PEL = 10.0 mg/m³ TLV/TWA = 10.0 mg/m³ (as dust) (ACGIH)	N.E.	40-45
Vinyl Dimethyl Poly - Dimethyl Siloxane	68083-19-2	N.E.	N.E.	40-60
Dimethyl- methylhydrogenpolysiloxane	68037-59-2	N.E.	N.E.	5

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 160°C SPECIFIC GRAVITY: (H₂0=1) 1.35g/cm³

VAPOR PRESSURE:100/50°CMELTING POINT:N.E.VAPOR DENSITY:2.56EVAPORATION RATE:N.E.SOLUBILITY IN WATER:InsolubleODOR THRESHOLD:N.E.

COEFFICIENT OF OILWATER DISTRIBUTION: N.E. APPEARANCE AND ODOR: Odorless paste

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not Flammable per ASTM D92 FLAMMABLE LIMITS: N.A.

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Alcohol Foam

SPECIAL FIRE FIGHTING PROCEDURES: Water is not effective medium. Firefighters should wear self contained breathing apparatus

and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Irritating and/or toxic aerosols or gases may be present.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide, Sulfur Hydrogen Sulfide

SECTION 5 - REACTIVITY DATA

STABILITY: Stable \(\subseteq \text{ Unstable } \subseteq \text{ Unstable } \subseteq \text{ POLYMERIZATION: Will Not Occur } \(\subseteq \text{ Will Occur } \subseteq \text{ CONDITIONS TO AVOID: High temperatures (> 121°C); open flames } \)

INCOMPATIBILITY (Materials to Avoid): Strong acids, bases, oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.



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EXAFLEX - EXAMIX - EXAFAST - BASE ALL

Page 2 of 2

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X			ļ			
TERATOGENIC AFFECTS		Х						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY	X (as silica dust)					Х		
SENSITIZER		X						

ROUTES OF ENTRY:

Inhalation 🛛

Skin 🛛

Ingestion 🖂

HEALTH HAZARD (Acute and Chronic): Breathing vapor generated from this product may be irritating to the eyes, nose and throat.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headaches CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove to fresh air if irritation develops

EYES: Flush with large volumes of water, consult a physician if irritation develops.

SKIN: Wash thoroughly with soap and water

INGESTION: Do not induce vomiting. Dilute by drinking several glasses of water. Seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Absorb with inert material; transfer to container for disposal

WASTE DISPOSAL METHOD: In accordance with Local and Federal Regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at normal room temperature in a well ventilated area

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: N.A.

VENTILATION: Local Exhaust: Recommended

Mechanical: N.E.

Special: N.E.

Other: N.E.

PROTECTIVE GLOVES: Synthetic/Vinyl Gloves EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N.E.

WORK/HYGIENIC PRACTICE: N.E.

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: 20 February 2012

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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FIRE - 0

TOXICITY - 1

NFPA REACTIVITY - 1

SPECIAL -



Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/24/2015

1 Identification

- · Product identifier
- Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and Regular Type)
- · 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

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 Void
- · Signal word Warning
- · Hazard statements

Causes eye irritation.

· Precautionary statements

Wash thoroughly after handling.

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.

· Additional information:

1.4 % of the mixture consists of component(s) of unknown toxicity.

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Version US-EN-Rev 1 Printing date 02/24/2015 Reviewed on 02/24/2015

Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 1)

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



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 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 o	omponents:	
112926-00-8	silicon dioxide, amorphous	25-50%
	polyethylene glycol derivative**	5-10%
	methylhydrogen dimethylpolysiloxane	1-5%

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.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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Printing date 02/24/2015 Version US-EN-Rev 1 Reviewed on 02/24/2015

Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 2)

· 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.

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.

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.

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

Avoid contact with the eyes and skin.

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USA

Printing date 02/24/2015 Version US-EN-Rev 1 Reviewed on 02/24/2015

Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 3)

· 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:

112926-00-8 silicon dioxide, amorphous

PEL Long-term value: 2 mg/m³

20mppcf or 80mg/m3 /%SiO2; 1mppcf = 0.1 mg/m³

REL Long-term value: 6 mg/m³

See Pocket Guide App. C

TLV | TLV Withdrawn

- · 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.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

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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Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 4)

9 Physical and chemical properties

 Information on basic physical and chemical propertie

· General Information

· Appearance:

Form: Pastv

According to product specification Color:

· 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:

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

Not determined.

Not determined.

· Explosion limits:

Lower:

Not determined. Upper: · Vapor pressure: Not applicable. · Density: Not determined.

· Relative density Not determined. · Vapour density Not applicable. · Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/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.

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Printing date 02/24/2015 Version US-EN-Rev 1 Reviewed on 02/24/2015

Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 5)

· 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: 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

3

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.

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. on page 1

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Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and Regular Type)

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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	
· 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 I	l of	
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	_	

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):

None of the ingredients is listed.

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Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

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TSCA (Toxic Substances Control Act):

vinyl dimethylpolysiloxane

polyethylene glycol derivative**

methylhydrogen dimethylpolysiloxane

· 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 Void
- · Signal word Warning
- · Hazard statements

Causes eye irritation.

· Precautionary statements

Wash thoroughly after handling.

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.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

- Department issuing MSDS: Regulatory Affairs
- · Contact:

Regulatory Affairs

Telephone No. +1 (708) 597-0900

sds@gcamerica.com

Date of preparation / last revision 02/24/2015 / -

· 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

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- USA

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Trade name: EXAMIX NDS (Base, Descriptions: Heavy Body, Injection Type, Monophase, and

Regular Type)

(Contd. of page 8)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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

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:

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- USA