



SAFETY DATA SHEET

Following Regulation 1910.1200

SDS Number: 304 Date of first issue: 17 February 2007 Date of last revision: 21 February 2022

1 - Identification of product

a - Product identifier used on the label

Tradenames: MONOMAX DEFOAMER

b - Other means of identification

COATING, DEFOAMER

c - Recommended use of the chemical and restrictions on use

A coating for refractory ceramic fiber (RCF) blankets, mats and modules

d - Name, address, and telephone number

Morgan Advanced Materials
P. O. Box 923; Dept. 300
Augusta, GA 30903-0923
Telephone: 706-796-4200

e - Emergency Phone Number

For Product Stewardship and Emergency Information:

Hotline - 1-800-722-5681

Fax - 706-560-4054

For additional SDSs and to confirm this is the most current SDS for the product, visit our web page www.morganthermalceramics.com or send a request to MT.NorthAmerica@morganplc.com

2 - Hazard Identification

a - Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not classified. Read the entire safety data sheet.

b - Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

None.

Emergency Overview

Syrupy, white liquid with mild odor. Not a fire or spill hazard.

c - Describe any hazards not otherwise classified that have been identified during the classification process

d - Mixture Rule

Not applicable.

3 - Composition / Information On Ingredients

a - Composition table

| COMPONENTS | CAS NUMBER | % BY WEIGHT |
|----------------------|------------|-------------|
| Polypropylene Glycol | 25322-69-4 | 5 - 10 |
| Polydimethylsiloxane | 63148-62-9 | 1 - 5 |
| Water | 7732-18-5 | >60 |

b - Common Name

(See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines)

d - Impurities and Stabilizing Additives

4 - First-Aid measures

a - Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

Eyes

Flush with large amounts of water for at least 15 minutes. Do not rub eyes.

Skin

FOR ROUTINE HANDLING AND SPILLS - Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Respiratory Tract

Not applicable

Gastrointestinal

No first aid should be needed

c - Indication of immediate medical attention and special treatment needed, if necessary

5 - Fire-fighting measures

a - Suitable (and unsuitable) extinguishing media and

Use extinguishing media suitable for type of surrounding fire

c - Special Protective Equipment and Precautions for Firefighters

Flammability: 1 Health: 1 Reactivity: 0 Special: 0

b - Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

None

6 - Accidental Release Measures

a - Personal precautions, protective equipment, and emergency procedures

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in Section 5 and 8.

b - Methods and materials for containment and cleaning up

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

7 - Handling and storage

a - Precautions for safe handling

b - Conditions for safe storage, including any incompatibilities

Store in a tightly closed container in a cool, dry, well ventilated area. Avoid skin and eye contact. Store away from oxidizing materials.

c - empty containers

Product packaging may contain residue. Do not reuse.

8 - Risk Management Measures / Exposures Controls / Personal Protection

a - OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available

| EXPOSURE GUIDELINES | | | |
|----------------------|-----------------|-----------------|--------------------|
| MAJOR COMPONENT | OSHA PEL | ACGIH TLV | MANUFACTURER'S REG |
| Polypropylene Glycol | Not Established | Not Established | NONE |
| Polydimethylsiloxane | Not Established | Not Established | |

OTHER OCCUPATIONAL EXPOSURE LEVELS (OEL)
Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection.

b - Appropriate Engineering Controls

General dilute ventilation

c - Individual protection measures, such as personal protective equipment

PPE - Skin

FOR ROUTINE HANDLING AND SPILLS -

Use reasonable care. Washing at mealtime and end of shift is adequate.

Suitable Gloves: Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials. Washing at mealtime and end of shift is adequate.

PPE - Eye

PERSONAL PROTECTIVE EQUIPMENT FOR ROUTINE HANDLING AND SPILLS – safety glasses as a minimum.

PPE – Respiratory

No respiratory protection should be needed.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com).

9 - Physical and chemical properties

| | |
|--|------------------------------------|
| a - Appearance | White syrupy liquid with mild odor |
| b - Odor | Not applicable |
| c - Odor Threshold | Not applicable |
| e - pH | Not applicable |
| d - Melting Point | Not applicable |
| f - Initial Boiling Point/Range | 212°F (100°C) |
| g - Flashpoint | Not applicable |
| h - Evaporation Rate | Not applicable |
| i - Flammability | Not applicable |
| j - Upper/Lower Flammability or Explosive Limits | Not applicable |
| k - VAPOR PRESSURE | Not applicable |
| l - VAPOR DENSITY | Not applicable |
| m - Solubility | Not Applicable |
| n - Relative Density | 1.0 |
| o - Partition Coefficient: n-Octanol/water | Not applicable |
| p - Auto-ignition temperature | Not applicable |
| q - Decomposition Temperature | Not applicable |
| r - Viscosity | Not applicable |

10 - Stability and Reactivity

a - Reactivity

None.

b - Chemical Stability

Stable under conditions of normal use.

c - Possibility of Hazardous Reaction

None

d - Conditions to Avoid

Oxidizing material

e - Incompatible Materials

Strong acid, chlorine bleach

f - Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

11 - Toxicological information

a - TOXICOKINETICS, METABOLISM AND DISTRIBUTION

No known applicable information

b - Acute Toxicity

c - Epidemiology

d - Toxicology

International Agency for Research on Cancer and National Toxicology Program

Not applicable.

12 - Ecological information

These products are not reported to have any ecotoxicity effects.

c - Bioaccumulative potential

d - Mobility in soil

e - Other adverse effects (such as hazardous to the ozone layer)

13 - Disposal Considerations

Waste Management and Disposal

Not a RCRA hazardous waste.

Additional information

Waste characterization and disposal/treatment methods should be determined by a qualified environmental professional in accordance with applicable federal, state and local regulations.

14 - Transport information

a - UN number.

Hazard Class: Not Regulated United Nations (UN) Number: Not Applicable
Labels: Not Applicable North America (NA) Number: Not Applicable
Placards: Not Applicable Bill of Lading: Product Name

b - UN proper shipping name

Not applicable.

c - Transport hazard class(es)

Not applicable.

d - Packing group, if applicable

Not applicable.

e - Environmental hazards (e.g., Marine pollutant (Yes/No))

No.

f - Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not regulated.

g - Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Not applicable.

International

INTERNATIONAL

Canadian TDG Hazard Class & PIN: Not regulated

Not classified as dangerous goods under ADR (road), RID (train), IATA (air) or IMDG (ship).

15 - Regulatory information

15.1 - United States Regulations

Product or components of mixture regulated under following lists:

SARA TITLE III:

Section 302: No (Extremely Hazardous Substances)

Section 304: No (Emergency Release)

Section 311: No Acute and Chronic Effects – MSDS

Section 312: No Tier I/II

Section 313: No (Toxic Chemicals, toxic Chemical Release Reporting, Form R)

TSCA : All substances in this product are included on or exempted from listing on the Chemical Substance Inventory of the Toxic Substance Control Act.

15.2 - International Regulations

Canada WHMIS: No Canadian Workplace Hazardous Materials Information System categories apply to this product.

Canadian EPA: All substances in this product are listed, as required, on the Domestic Substance List (DSL).

16 - Other Information

initial statement

Devitrification

Product Stewardship Program

Morgan Thermal Ceramics www.morganthermalceramics.com

HMIS HAZARD RATING

TECHNICAL DATA SHEETS

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Revision Summary

Revision date updated.

MSDS prepared by

SDS Prepared By: MORGAN THERMAL CERAMICS ENVIRONMENTAL, HEALTH & SAFETY DEPARTMENT

Disclaimer

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgment; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Morgan Thermal Ceramics does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.