

SAFETY DATA SHEET

Following Regulation 1910.1200

SDS Number: 303 Date of first issue: 30 January 2007 Date of last revision: 21 February 2022

1 - Identification of product

a - Product identifier used on the label

Tradenames:

b - Other means of identification

COATING, SURFACTANT

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

Under OSHA HCS 2012, this product is classified as Category 2 skin & eyes irritant.

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

Hazard Pictograms



Hazard Statements

- Causes mild skin irritation
- Causes eye irritation
- May cause respiratory irritation
- May cause temporary irritation to exposed eyes, skin or respiratory tract.

Precaution Statements

- Do not handle until all safety instructions have been read and understood.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- If concerned about exposure, get medical advice
- Dispose of waste in accordance with local, state and federal regulations.

Emergency Overview

Syrupy, clear, green liquid with mild soapy odor. Not a fire or spill hazard. Inhalation of product mist/particulate may aggravate existing chronic lung conditions such as, but not limited to, bronchitis, emphysema and asthma.

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

d - Mixture Rule

3 - Composition / Information On Ingredients

a - Composition table

COMPONENTS	CAS NUMBER	% BY WEIGHT
Sodium Dodecylbenzene Sulfonate	025155-30-0	5 - 5
Ethanol	64-17-5	1 - 5
Mixture	NONE	80 - 92

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

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes.

Skin

Wash with soap and water. If symptoms develop and persist, get medical attention.

Respiratory Tract

Remove affected person to clean fresh air. Drink water to clear throat, and blow nose to remove dust.

Gastrointestinal

Ingestion is an unlikely route of exposure. If swallowed seek immediate medical attention. Do not give anything by mouth to an unconscious person. Place victim on left side with head down. If individual is conscious and alert, induce vomiting by giving syrup of ipecac or by gently placing two fingers at the back of the throat. If possible, do not leave individual unattended.

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: 2 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

Wear suitable goggles, gloves and protective clothing.
Contain spillage, absorb in earth or sand and shovel into suitable containers.
Do not flush spillage to drain and prevent from entering natural watercourses. For wastes disposal refer to section 13.

b - Methods and materials for containment and cleaning up

Pick up large pieces and dispose in a closed container. Follow precaution stated in above section for clean up.

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.

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
Ethanol	1000 ppm	1000 ppm	NONE
<i>OTHER OCCUPATIONAL EXPOSURE LEVELS (OEL)</i> 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

Pending results of long-term health effects studies, engineering controls (i.e. ventilation) and work practices should be established to control levels of airborne fiber to the lowest level attainable. Provide sufficient ventilation, in both volume and air flow patterns, to control the fiber/dust concentrations below allowable exposure limits.

c - Individual protection measures, such as personal protective equipment

PPE - Skin

Goggles, gloves, respirators, long sleeve clothing and head covering.

PPE - Eye

PPE – Respiratory

Thermal Ceramics currently recommends an exposure limit of one-half fiber per cubic centimeter (0.5 f/cc) for respirable airborne ceramic fiber as an 8-hour time weighted average exposure. Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910.134 for the level of exposure incurred.

9 - Physical and chemical properties

a - Appearance	A clear green syrupy liquid with a mild soap-like odor
b - Odor	Not applicable
c - Odor Threshold	Not applicable
e - pH	6.5 - 7.3
d - Melting Point	Not applicable
f - Initial Boiling Point/Range	250°F (121°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	Same as water
m - Solubility	100%
n - Relative Density	1.05 ± 0.02
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

None

e - Incompatible Materials

Strong acid, chlorine bleach

f - Hazardous decomposition products

None

11 - Toxicological information

a - TOXICOKINETICS, METABOLISM AND DISTRIBUTION

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists by the manufacturer and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the MSDS.

b - Acute Toxicity

c - Epidemiology

d - Toxicology

International Agency for Research on Cancer and National Toxicology Program

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

It is recommended that the product be mixed with soil or a suitable absorbent material to eliminate free water. Small quantities are not hazardous and are suitable for landfill disposal.

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: Yes, Acute and Chronic Effects – MSDS

Section 312: Yes, Tier I/II

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

CERCLA Hazardous Substance List, RQ: The Reportable Quantity (RQ) for this product to the environment is 12,500 lbs. based on the presence of sodium dodecylbenzene sulfonate (8%). Releases greater than or equal to 12,500 lbs. must be reported to the National Response Center (NRC) immediately: 800-424-8802.

TSCA: All substances in this product are listed in the Chemical Substance Inventory of the Toxic Substance Control Act

15.2 - International Regulations

16 - Other Information

initial statement

Devitrification

Product Stewardship Program

Morgan Thermal Ceramics www.morganthermalceramics.com

HMIS HAZARD RATING

TECHNICAL DATA SHEETS

Wendy: Please insert TDSs

Revision Summary

In May 2015 this SDS has been updated to GHS format in conformance with US OSHA HCS 2012 (29CFR 1910.1200) and Canada Hazardous Products Act and the Hazardous Products Regulations.

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.