



## SAFETY DATA SHEET

Following Regulation 1910.1200

SDS Number: RP400      Date of first issue: 09 January 1996      Date of last revision: 21 February 2022

### 1 - Identification of product

#### a - Product identifier used on the label

Tradenames: RPC ALFIBOND

#### b - Other means of identification

COLLOIDAL ALUMINA PRODUCT

#### c - Recommended use of the chemical and restrictions on use

High temperature industrial thermal insulation

#### d - Name, address, and telephone number

**Morgan Advanced Materials**  
1185 Walkers Line  
Burlington, Ontario L7M 1L1  
CANADA  
Telephone: 905-335-3414

**Morgan Advanced Materials**  
P. O. Box 923; Dept. 300  
Augusta, GA 30903-0923  
USA  
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](http://www.morganthermalceramics.com) or send a request to [MT.NorthAmerica@morganplc.com](mailto: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

#### 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
Water	7732-18-5	75 - 85
Colloidal Alumina	1344-28-1	15 - 25

#### b - Common Name

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

#### d - Impurities and Stabilizing Additives

Not applicable.

### 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

Wash affected area gently with soap and water. Skin cream or lotion after washing may be helpful.

##### Respiratory Tract

If respiratory tract irritation develops, move the person to a dust free location. See Section 8 for additional measures to reduce or eliminate exposure.

##### Gastrointestinal

If gastrointestinal tract irritation develops, move the person to a dust free environment.

#### 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: 0 Health: 0 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

Avoid creating airborne dust. Dust suppressing cleaning methods such as wet sweeping or vacuuming should be used to clean the work area.

### b - Methods and materials for containment and cleaning up

Take up with liquid-absorbing material (eg. sand, wood dust). Wash spillage site thoroughly with soap and water or detergent solution. Dispose of according to Federal, State and local government regulations.

## 7 - Handling and storage

### a - Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid breathing aerosol mist. Wash thoroughly after handling.

### b - Conditions for safe storage, including any incompatibilities

Store in a manner to minimize airborne dust.

### 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
Colloidal Alumina	15 mg/m <sup>3</sup> (total dust)	1 mg/m <sup>3</sup> (respirable dust)	NONE
	5 mg/m <sup>3</sup> (respirable dust)		
<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

Generally not required, however, if excessive dust is present, a dust collection device shall be used.

### c - Individual protection measures, such as personal protective equipment

#### PPE - Skin

Wear full body clothing, gloves, hat and eye protection.

#### PPE - Eye

Goggles/safety glasses with sideshields should be worn.

#### PPE – Respiratory

## 9 - Physical and chemical properties

a - Appearance	White, slight odor
b - Odor	Not applicable
c - Odor Threshold	Not applicable
e - pH	Not applicable
d - Melting Point	>1600°C (2912°F)
f - Initial Boiling Point/Range	Not applicable
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	Not applicable
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

None

### f - Hazardous decomposition products

None

## 11 - Toxicological information

### a - TOXICOKINETICS, METABOLISM AND DISTRIBUTION

Aluminum metal dust has been shown to present a minimal health hazard, according to studies of "aluminum oxide" dust.

No deleterious lung or systemic effects were observed as a result of exposure to aluminum metal dust having a particle size of 1.2 um at calculated concentrations equivalent to 2 mg/m(3) over 10- or 20-minute periods produced no adverse effects.

### b - Acute Toxicity

### c - Epidemiology

### d - Toxicology

International Agency for Research on Cancer and National Toxicology Program

Not applicable.

## 12 - Ecological information

No data available.

### c - Bioaccumulative potential

No information for the product.

### d - Mobility in soil

No information for the product.

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

No adverse effects of this material on the environment are anticipated.

## 13 - Disposal Considerations

### Waste Management and Disposal

Comply with federal, state and local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate.

### Additional information

This product, as manufactured, is not classified as a listed or characteristic hazardous waste according to U. S. Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under U. S. Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

## 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

#### **UNITED STATES REGULATIONS**

**SARA Title III:** This product does not contain any substances reportable under Section 302, 304, 313 (40 CFR 372). Section 311 and 312 apply.

**OSHA:** Comply with Hazard Communication Standards 29 CFR 1910.1200 and 29 CFR 1926.59 and Respiratory Protection Standards 29 CFR 1910.134 and 29 CFR 1926.103. Components of this product are considered to be hazardous as defined by the OSHA Hazard Communication Standard.

**TSCA:** All substances contained in this product are listed in the TSCA Chemical Inventory [Section 8(b)].

### 15.2 - International Regulations

#### **INTERNATIONAL REGULATIONS**

Canadian WHMIS: Not applicable

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](http://www.morganthermalceramics.com)

### HMIS HAZARD RATING

HMIS Acute Health: 1

HMIS Flammable: 0

HMIS Reactivity: 0

HMIS Personal Protective: To be determined by user \*See section 3 of the MSDS for possible chronic health effects.

### TECHNICAL DATA SHEETS

Wendy: Please insert TDSs

### 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.