



## SAFETY DATA SHEET

Following Regulation 1910.1200

SDS Number: 704      Date of first issue: 20 April 2020      Date of last revision: 21 February 2022

### 1 - Identification of product

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

Tradenames: IC 100 Coating

#### b - Other means of identification

Titanium Dioxide

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

EST IC 100 coating is a water-based thin-film intumescent fire protection coating. Its application characteristics offer good impact resistance and an aesthetic finish.

#### 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](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

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

##### Emergency Overview

Exposure to mist or vapor from this product may cause skin, eyes and respiratory tract irritation.

#### 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
Titanium Dioxide	13463-67-7	7

#### b - Common Name

#### 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

If eyes become irritated, flush immediately with large amounts of lukewarm water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not rub eyes.

##### Skin

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

##### 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 swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

#### 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

NFPA Codes: Flammability: 0 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

Minimize airborne dust. Compressed air or dry sweeping should not be used for cleaning. See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines.

### 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

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of reach of children.

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

#### 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
Titanium Dioxide	None Established	None Established	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

Use engineering controls, such as ventilation and dust collection devices, to reduce airborne particulate concentrations to the lowest attainable level.

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

#### PPE - Skin

Use of gloves and work clothes is recommended.  
Soiled clothes should be cleaned before being taken off (e.g. use vacuum cleaning, not compressed air).

#### PPE - Eye

Goggles/safety glasses with sideshields should be worn.

#### PPE – Respiratory

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

## 9 - Physical and chemical properties

a - Appearance	Not applicable
b - Odor	No odor
c - Odor Threshold	Not applicable
e - pH	>2.0, <11.5
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	Heavier than air
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

### b - Chemical Stability

### c - Possibility of Hazardous Reaction

Will not occur.

### d - Conditions to Avoid

None

### e - Incompatible Materials

Not known

### f - Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, reactive hydrocarbons and small amount of formaldehyde may accompany binder burn-off during initial heating.

## 11 - Toxicological information

### a - TOXICOKINETICS, METABOLISM AND DISTRIBUTION

### b - Acute Toxicity

### c - Epidemiology

### d - Toxicology

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint".

CAS No.	Ingredient Name	LC50 RAT (4HR) Not available
13463-67-7	Titanium Dioxide	LC50 RAT (4HR) Not Available

## 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

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

### 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 Sections 302, 304, 313 (40 CFR 372). Sections 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.

**TSCA:** AES wools have been assigned several CAS numbers; however, as "article", they are not required to be listed on the TSCA inventory.

**CERCLA:** AES wool contains fibers with an average diameter greater than one micron and thus is not considered a CERCLA hazardous substance.

**CAA:** AES wool contains fibers with an average diameter greater than one micron and thus is not considered a hazardous air pollutant.

**States:** AES wools are not known to be regulated by any State. If in doubt, contact your local regulatory agency.

### 15.2 - International Regulations

## 16 - Other Information

### initial statement

#### Devitrification

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### Product Stewardship Program

#### HMIS HAZARD RATING

HMIS Health: 1

HMIS Flammable: 0

HMIS Reactivity: 0

HMIS Personal Protective: To be determined by user

#### TECHNICAL DATA SHEETS

#### Revision Summary

1<sup>st</sup> Edition of SDS

#### 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.