



SAFETY DATA SHEET

ITC-213

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: ITC-213

Other Names: ITC-213 Graphite & Metal Coating 4000°F
High Temperature Graphite & Metal Coating

Primary Use: ITC-213 is used to protect graphite and metals at high temperatures and in caustic environments, including those in direct contact with molten metal.

Secondary Use: To repair damaged areas.

CAS Number: 66402-68-4

HS Code: 3816.00.0010

Distributor: CeraMaterials
525 Silver Lake Rd
Dingmans Ferry, PA 18328
Emergency Contact: Jeff Optiz
Product Stewardship: 518.701.6722

24hr Emergency Contact Info:

CHEMTREC US Transportation: 800.424.9300

CHEMTREC International Transportation: 703.741.5500

National Poison Control: 800.222.1222

SECTION 2 - HAZARDS IDENTIFICATION

Point of Entry: Inhalation, eyes, skin, and/or ingestion.

Inhalation: May cause damage to the lungs

Eye Contact: Possible irritant

Skin Contact: Possible irritant

Ingestion: May produce nausea, possible damage to the lining of the esophagus and gastrointestinal tract.



SECTION 3 - COMPOSITION

Ingredients:	Proprietary non-toxic ceramic component formulation
CAS #:	66402-68-4
North American Hazard Indicator:	None known

SECTION 4 - FIRST AID MEASURES

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

Inhalation:

Remove individual from exposure and move to fresh air. Drink water and blow nose. If symptoms persist, seek medical advice.

Eyes:

Immediately flush eye(s) with water for approximately 15 minutes; have eye bath available if possible. Do not rub eyes.

Skin:

Handling of this material may generate mild mechanical temporary skin irritation. If this occurs, rinse affected areas and wash gently with soap and water. Do not rub or scratch exposed skin.

Ingestion:

Do not induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed.

Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure. These effects are usually temporary.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media.

Use extinguishing agent suitable for surrounding combustible materials.

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



Non-combustible product, class of reaction to fire is zero. Packaging and surrounding materials may be combustible.

Flammable Properties:	Non-flammable
Hazardous Combustion Products:	None
Specific Hazards arising from Product:	None
Sensitivity To Mechanical Impact:	None
Sensitivity To Static Discharge:	None

Special protective equipment and precautions for fire-fighters.

NFPA Codes: Flammability: 0 Health: 1* Reactivity: 0 Special: 0

*This product contains crystalline silica, a product known to be carcinogenic by the State of California.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment.
Spillage:	Hose off area with clean water. Material will harden in ambient temperature into a solid form that is non-hazardous.

SECTION 7 - HANDLING AND STORAGE

Handling Precautions:
Use OSHA approved air purifying respirator, safety goggles, gloves and work clothes during application. If material is spilled, hose off area with clean water. Material will harden in ambient temperatures into a solid form that is non-hazardous to nature.

Storage Precautions:
Keep containers properly closed and labeled. Any remaining material can be remixed and reused at a later date. Material shelf life is approximately 5 years.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective Equipment:
Safety goggles, gloves, dust mask/respirator and standard work clothes that protect skin.



Exposure Guidelines:

Emergency eyewash station should be in close proximity. A bucket of clean water should be available to rinse skin should irritation begin.

Engineering Controls:

Adequate room ventilation or local exhaust is suggested. No special ventilation is required.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid Ceramic Paste	pH:	Undetermined
Odor:	Odorless	Vapor pressure:	Undetermined
Odor thresold:	Not applicable	Vapor density:	Undetermined
Melting point:	4000°F 2204°C	Relative density:	Not applicable
Initial boiling point / range:	Not applicable	Solubility:	Water based
Flash point:	Not applicable	Auto-ignition temperature:	Not applicable
Evaporation rate:	Not applicable	Decomposition temperature:	Not applicable
Flammability:	Not applicable	Viscosity:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable	Partition coefficient (n-octanol/water):	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Non-reactive
Chemical stability:	Stable under all conditions
Possibility of hazardous reactions:	None
Conditions to avoid:	None
Incompatible materials:	None
Hazardous decomposition products:	None

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:	Based on available data, no evidence of acute toxicity.
Skin Corrosion / Irritation:	Based on available data, not, or only slightly irritating.
Eye Irritation:	Based on available data, no evidence of eye irritation.
Respiratory Irritation:	No adverse effects expected for normal, incidental ingestion.
Carcinogenicity:	Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called Silicosis.



Reproductive Toxicity: No evidence of toxicity.
STOT - Single Exposure: No evidence of toxicity.
STOT - Repeated Exposure: No evidence of toxicity.
Aspiration Hazard: Based on available data, no known aspiration hazard.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Contains no substances known to be hazardous to the environment.
Contains no substances known to be not degradable in waste-water treatment plants.

Degradability: Readily biodegradable.

Mobility: Dispersible in water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

This product, as manufactured, is not classified as a hazardous waste according to Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under 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 disposable requirements in your jurisdiction.

Packaging:

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Description: Not applicable. Material is not hazardous for transportation.

SECTION 15 - REGULATORY INFORMATION

Federal Regulations

Ozone Depleting Substances:

No Class 1 or Class II materials are used in the manufacture of, or contained in, this product.

SARA 302:

This product does not contain any chemicals subject to the reporting requirements of section 302 of the Superfund Amendments and Reauthorization Act of 1986.



SARA 311 / 312:

Acute Health Hazard:	No
Chronic Health Hazard:	Yes
Fire Hazard:	No
Reactive Hazard:	No
Sudden pressure release hazard:	No

Clean Air Act, Section 112 Hazardous Air Pollutants:

This product does not contain any HAPS

SECTION 16 - OTHER INFORMATION

Hazardous Materials Identification System (HMIS) Hazard Rating:

Health	1*
Flammability	0
Reactivity / Physical Hazard	0
Personal Protective Equipment	X**

*Indicates possible chronic health effects from continuing exposures

**To be determined by the user

Effective Date: October 1, 2015
Revision Summary: Company address updated
Revision Date: October 17, 2019
SDS Prepared By: CeraMaterials

Disclaimer

The information presented herein is presented in good faith and believed to be accurate as 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 judgement; 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, CeraMaterials 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.