

# BONDCERAM 311 MATERIAL SAFETY DATA SHEET

HOTTEC CORP.

Material Safety Data Sheet

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## 1 CHEMICAL PRODUCT AND COMPANY DESCRIPTION

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Hottec Corp.  
One Terminal Way  
Norwich , Ct 06360

**Emergency Phone Numbers:**

For emergencies involving a spill, leak, fire, exposure, or accident  
Contact: Hottec Corp. 860-887-5111, EMERGENCY evenings 860-822-1701

**For Product Information:**

860-887-5111

**Chemical Name or Synonym:**

BONDCERAM 311

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS Reg Number	OSHA Hazard	Percentage
PHOSPHATE ACID SALT	13530-50-2	Y 50	
WATER	7732-18-5	N	Balance
INERT FILLER			

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## 3 HAZARDS IDENTIFICATION

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**A. Emergency Overview:**

**Physical Appearance and Odor:**

White pasty/ liquid, odorless.

**Warning Statements:**

Danger! Causes Burns.

**B. Potential Health Effects:**

**Acute Eye:**

Corrosive. Causes burns.

**Acute Skin:**

Causes irritation, May cause burns.

**Acute Inhalation:**

Mists may cause upper respiratory tract irritation.

**Acute Ingestion:**

May cause nausea, vomiting, diarrhea, irritation, burns to mouth and esophagus.

**Chronic Effects:**

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

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## 4 FIRST AID MEASURES

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**First aid measures for accidental:**

**Eye exposure:**

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

**Skin exposure:**

Immediately wipe excess material off skin with a dry cloth; then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use

**Inhalation:**

Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.

**Ingestion:**

If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

**Medical conditions possibly aggravated by exposure:**

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

**Notes to physician:**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the feces with the diarrhea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity. Treatment should take into consideration both anionic and cation portion of the molecule. The following treatments should be considered for the specific groups of phosphate salts found in this product:

--All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcemia, so calcium levels should be monitored.

--Ammonium salts have a hypothetical risk of ammonia toxicity. In addition to calcium levels, ammonia and phosphate levels should be monitored.

--Potassium salts have a hypothetical risk of hyperkalemia which can cause cardiac arrhythmia. In addition to calcium levels, potassium and phosphate levels should be monitored. Also consider continuous EKG monitoring to detect hyperkalemia.

--Sodium salts have a hypothetical risk of hypernatremia. In addition to calcium levels, sodium and phosphate levels should be monitored.

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## 5 FIRE FIGHTING MEASURES

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**Fire Hazard Data:****Flash point:**

Not applicable

**Extinguishing media:**

Not combustible. Use extinguishing method suitable for surrounding fire.

**Special fire fighting procedures:**

Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full acid-resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

**Unusual fire and explosion hazards:**

Not combustible.

**Hazardous decomposition materials (Under fire conditions):**

Oxides of phosphorus

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## 6 ACCIDENTAL RELEASE MEASURES

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**Evacuation procedures and safety:**

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

**Containment of spill:**

Follow procedure described below under Cleanup and Disposal of Spill.

**Cleanup and disposal of spill:**

Carefully neutralize spill with soda ash. Clean up residual material by washing area with water. Exercise caution during neutralization as considerable heat may be generated.

**Environmental and regulatory reporting:**

Prevent material from entering public sewer system or any waterways. Large spills should be handled according to a predetermined plan. For assistance in developing a plan contact the Technical Service Department using the Product Information phone number in Section 1.

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## 7 HANDLING AND STORAGE

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**Minimum/maximum storage temperatures:**

No data available

**Handling:**

Avoid breathing vapors. Avoid direct or prolonged contact with skin and eyes. Do not ingest.

**Storage:**

Store in an area that is cool, dry, well ventilated, away from combustible material, away from ignition sources. Store in tightly closed containers. Recommended container material: stainless steel (type 316), rubberized steel.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Introductory remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure guidelines:**

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ADGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:

**Aluminum, /AS AL/, Soluble salts**

	Notes	TWA
STEL		
ACGIH		2 mg/cu m
OSHA		2 mg/cu m

**Engineering Controls:**

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation

**Respiratory protection:**

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by OSHA/ANSI : Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against acid gases.

**Eye/face protection:**

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area. Face contact should be prevented through use of a face shield.

**Skin protection:**

Skin contact should be prevented through use of suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

**Work practice controls:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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Physical and chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

**Physical appearance:**

White pasty /liquid.

**Odor:**

Odorless.

**PH:**

2.5 at 1 wt/wt%.

**Specific gravity:**

1.77 at 15 C (59F)

**Water solubility:**

Partially Soluble leaves inert fillers

**Melting point range:**

No data available

**Boiling point range:**

No data available

**Vapor pressure:**

No data available

**Vapor density:**

No data available

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## 10 STABILITY AND REACTIVITY

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**Chemical stability:**

This material is stable under normal handling and storage conditions described in Section 7.

**Conditions to be avoided:**

Extreme heat.

**Materials/chemicals to be avoided:**

Strong bases

**The following hazardous decomposition products might be expected:**

**Decomposition type: thermal**

Oxides of phosphorus

**Hazardous polymerization will not occur.**

**Avoid the following to inhibit hazardous polymerization:**

Not applicable

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## 11 TOXICOLOGICAL INFORMATION

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### **Acute eye irritation:**

#### **Toxicological information and interpretation**

Eye-eye irritation, rabbit.

Corrosive

### **Acute skin irritation:**

#### **Toxicological information and interpretation**

Skin-skin irritation, rabbit.

Corrosive (24 hr exposure)

Skin-skin irritation, rabbit.

Non-irritating (4 hr exposure)

### **Acute dermal toxicity:**

#### **Toxicological information and interpretation**

LD50-Lethal dose 50% of test species, 4640 mg/kg, rabbit.

### **Acute respiratory irritation:**

No test data found for product.

### **Acute respiratory irritation:**

No test data found for product.

### **Acute oral toxicity:**

#### **Toxicological information and interpretation**

LD50-Lethal dose 50% of test species, >1000 mg/kg, rat.

LD50-Lethal dose 50% of test species, <4640 mg/kg, rat.

### **Chronic toxicity:**

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

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## 12 ECOLOGICAL INFORMATION

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### **Ecotoxicological information:**

No data found for product.

### **Chemical fate information:**

No data found for product.

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## 13 DISPOSAL CONSIDERATIONS

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### **Waste disposal method:**

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

EPA hazardous waste – yes

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## 14 TRANSPORTATION INFORMATION

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### **Transportation status:**

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

### **US department of transportation:**

DOT hazard class....8

### **DOT shipping name:**

Corrosive liquid, acidic, inorganic, N.O.S.

### **DOT technical shipping name:**

Aluminum phosphate containing solution

DOT ID number ....UN3264

DOT packing group....III

DOT labels....corrosive

Emergency guide#....60

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## 15 REGULATORY INFORMATION

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### **Federal regulations**

### **TSCA inventory status:**

All ingredients of this product are listed on the TSCA Inventory.

### **SARA title III hazard classes:**

Fire hazard - No

Reactive hazard -No

Release of pressure -No  
Acute health hazard -Yes  
Chronic health hazard -No

**SARA extremely hazardous substance (EHS) / CERCLA hazardous substances**

**Ingredient**

**CERCLA/SARA RQ SARA ES**

**TPQ**

Unlisted hazardous wastes – characteristic of corr 100lbs  
osivity

**State regulations:**

This product does not contain any components that are regulated under California Proposition 65.

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## 16 OTHER INFORMATION

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**National fire protection association hazard rating—NFPA®:**

3 Health hazard rating—serious  
0 Flammability rating—minimal  
0 Reactivity rating—minimal

**National paint & coating hazardous materials identification system—HMIS®**

3 Health hazard rating—serious  
0 Flammability rating—minimal  
0 Reactivity rating—minimal

**Reason for revisions:**

Conversion to ANSI MSDS format.

**Key legend information:**

NAV – not available

NAP – not applicable

ND – not determined

ACGIH – American conference of governmental industrial hygienists

OSHA – Occupational safety and health administration

TLV – Threshold limit value

PEL – Permissible exposure limit

TWA – Time weighted average

STEL – Short term exposure limit

NTP – National toxicology program

IARC – International agency for research on cancer

**Disclaimer:**

The information herein is given in good faith but no warranty, expressed or implied, is made.