



## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Product Name:** Sapphire Scientific Penetrating Tile and Grout Sealer

---

#### Supplier:

Sapphire Scientific  
2604 Liberator  
Prescott, AZ 86301 US  
Phone: 1-800 932-3030 Emergency: 1-800 535-5053

---

### 2. Hazards Identification

Inhalation of spray or mist may cause nasal, larynx, throat, or lung irritation.

---

### 3. Composition / Information on Ingredients

Material	CAS Number	%
Partially Fluorinated Alcohol, Reaction Products with Phosphorus Oxide (P2O5), Ammonium Salts	NA	<20

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

---

### 4. First Aid Measures

**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**SKIN CONTACT:** Flush skin with water after contact. Wash contaminated clothing before reuse.

**EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**INGESTION:** If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**Notes to Physicians:** Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

---

### 5. Fire Fighting Measures

**Flash Point:** NA Non-flammable.

**Extinguishing Media:** Use media appropriate for surrounding material.

**Fire Fighting Instructions** Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

---

### 6. Accidental Release Measures

**NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Spill Clean Up:** Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up. Flush spill area with water.

---

### 7. Handling and Storage

Do not use this product in consumer spray applications. Do not produce respirable particles unless suitable ventilation and respirator are used. Do not breathe vapors or mist. Avoid contact with eyes. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material.

#### Storage

Store in a well ventilated place. Keep container tightly closed. Perishable if frozen. Keep the product above freezing point at all times. Mix well before each use. The viscosity of this product may increase over time or after cold storage, but will not affect performance.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

Keep container tightly closed. Use only with adequate ventilation. Do not produce respirable particles.

### 8. Exposure Controls/ Personal Protection

---

EYE/FACE PROTECTION: Wear safety glasses or coverall chemical splash goggles.

RESPIRATORS: Where there is potential for airborne exposures wear NIOSH approved respiratory protection.

PROTECTIVE CLOTHING: Where there is potential for skin contact have available and wear as appropriate, impervious gloves, apron, pants, and jacket.

---

PEL (OSHA): None Established

TLV (ACGIH): None Established

Exposure Guideline Comments

### 9. Physical and Chemical Properties

---

Boiling Point :	100 C (212 F)	Odor:	None.
% Volatiles :	25- 28%	Form:	Viscous Liquid.
Solubility in Water :	Soluble	Color:	(light) (dark), Amber.
pH :	7-9	Density :	8.8 lb/gal

### 10. Stability and Reactivity

---

Chemical Stability: Stable.

Incompatibility with Other Materials none reasonably foreseeable.

Decomposition Decomposes with heat. Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

Decomposition temperature: 201-205 C (394-401 F)

Polymerization Polymerization will not occur.

---

### 11. TOXICOLOGICAL INFORMATION

Animal Data

Oral LD50 in rats: > 5000 mg/kg

Dermal LD50 in rat: > 5000 mg/kg

The approximate lethal concentration of the product by inhalation was 47 mg/m<sup>3</sup> in male rats. Histopathological evaluations of the respiratory tract of animals exposed to 8 mg/m<sup>3</sup> revealed changes to the laryngeal tissue, the NOAEC for this effect was 1 mg/m<sup>3</sup>.

Not a skin irritant or skin sensitizer in mice in LLNA. It was not a dermal irritant in rabbits. Product is mildly irritating to the eyes but is not classified as an eye irritant in Europe. Does not cause genetic damage in bacterial cell cultures. There is no activated sludge respiration inhibition at 1000 A.I. ppm of this product.

This material was not found to produce structural or numerical chromosome aberrations in the in vitro mammalian chromosome aberration test in human peripheral blood lymphocytes.

### 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

48 hr. EC50, Daphnia magna: 16,2 mg/L

96 hr. LC50, Pimephales promelas: >120 mg/L

72 hr. EbC50, EyC50 and ErC50, Pseudokirchneriella subcapitata: >120 mg/L

21-day NOEC Daphnia magna neonates: 0.409 mg/L

21-day LOEC Daphnia magna neonates: 0.843 mg/L

21-day MATC Daphnia magna neonates: 0.587 mg/L

### 13. Disposal Considerations

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

### 14. TRANSPORTATION INFORMATION

Shipping Information Not Regulated as a hazardous material by DOT, IMO, or IATA.

**15. REGULATORY INFORMATION**

# U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute: Yes

Chronic: No

Fire: No

Reactivity: No

Pressure: No

TSCA Inventory Status: Listed.

This material contains one or more substances which are subject to a TSCA Section 5 Consent Order or Significant New Use Rule (SNUR). This material contains one or more substances which requires export notification under TSCA Section 12(b) and 40 CFR Part 707 Subpart D:

Partially fluorinated alcohol, reaction products with phosphorus oxide (P2O5), ammonium salts Trade Secret (PMN P-09-245)

This material shall not be distributed to consumers for use in spray applications.

**16. Other Information**

**OTHER INFORMATION**

NFPA Rating Health : 2 Flammability : 1 Reactivity : 1	NPCA-HMIS Rating Health : 2 Flammability : 0 Reactivity : 0 Personal Protection rating to be supplied by user depending on use conditions.
---	--

Disclaimer: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 1/10/2011