

# **MATERIAL SAFETY DATA SHEET**

Manufacturer: Regin HVAC Products, Inc.  
Address: 315 Riggs Street Unit 1A Oxford, CT 06478  
Phone (Info): (203) 881-2600  
Emergency Phone: (800) 424-9300, International 2024837616  
Identity (Trade Name): Smoke Bottle RFA, S101, Air-Check, 4811C.  
MSDS Number: S2000-2  
CAS Number: 7550-45-0  
Date Prepared: 11/01/2007  
Prepared By: Ronnie Magnusson

## **SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

Components: TITANIUM TETRACHLORIDE  
Percent 100%  
OSHA PEL: N/A  
ACGIH TLV N/A  
Other Limits Recommended: 0.5 mg/cum

## **SECTION 2 - CHEMICAL CHARACTERISTICS**

Boiling Point: 136.4C (277.5F)  
Melting Point: -24.1C (-11.4F)  
Vapor Pressure: 10 mm of HG @ 20C  
Specific Gravity: 1.726  
Vapor Density: 6.6  
Solubility in Water: LIBERATES HYDROGEN CHLORIDE GAS  
Evaporation Rate: N/A  
Water Reactive: REACTS VIGOROUSLY  
Appearance and Odor: COLORLESS TO PALE YELLOW FUMING LIQUID.  
IRRITANT ODOR.

## **SECTION 3 - FIRE AND EXPLOSION HAZARD DATA**

Flash Point: NONFLAMMABLE  
Auto Ignition Temp: N/A  
Flammability limits in air: N/A  
LEL: N/A  
UEL: N/A  
Extinguishing Media: NONFLAMMABLE  
Special Fire Fighting Proc: MSHA/NIOSH APPROVED RESPIRATOR AND  
PROTECTIVE CLOTHING.  
Unusual Fire & Expl Hazrds: REACTS VIGOROUSLY WITH WATER TO RELEASE  
HYDROGEN CHLORIDE GAS.

## **SECTION 4 - REACTIVITY HAZARD DATA**

Stability: STABLE  
Cond to Avoid (Stability): WATER AND MOISTURE.  
Materials to Avoid: WATER, POTASSIUM, ALCOHOLS, REACTIVE  
METALS, AMMONIA, ALKALIS.  
Hazardous Decomp. Prod: HYDROGEN CHLORIDE VAPORS.  
Hazardous Polymerization: WILL NOT OCCUR  
Cond. to avoid (Poly): NO ADDITIONAL REMARKS

## **SECTION 5 - HEALTH HAZARD DATA**

Route of Entry - Inhalation: YES  
Route of Entry - Skin: YES  
Route of Entry - Ingestion: YES  
Carcinogen Listed in: NOT LISTED  
Health Hazard, Acute: EXTREMELY TOXIC BY INGESTION AND INHALATION. EYE AND SKIN CONTACT  
Health Hazard, Chronic: TOXIC TO LUNGS, MUCOUS MEMBRANES  
Symptoms of Exposure:  
Med. Cond. Generally  
Aggravated By Exp: GET MEDICAL ASSISTANCE FOR ALL OVEREXPOSURE.

### **Emergency/First Aid Procedures**

EYES: FOR LIQUID CONTACT: CHECK FOR AND REMOVE CONTACT LENSES. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION.  
SKIN: FOR LIQUID CONTACT: REMOVE CONTAMINATED CLOTHES. WIPE EXCESS LIQUID FROM SKIN WITH DRY CLOTH. APPLY WATER IN LARGE AMOUNTS.  
INHALATION: MOVE VICTIM TO REST IN A WELL-VENTILATED AREA. GET MEDICAL ATTENTION.  
INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

## **SECTION 6 - CONTROL AND PROTECTIVE MEASURES**

Respiratory Protection: USE MSHA/NIOSH APPROVED RESPIRATOR OR EQUIVALENT.  
Protective Gloves: NEOPRENE OR EQUIVALENT  
Eye Protection: SPLASH GOGGLES.  
Ventilation To Be Used: APPROVED FUME HOOD OR EQUIVALENT VENTILATION.  
Other Protective Equipment:

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

## **SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/ LEAK PROCEDURE**

Steps If Matl. Released/Spill: VENTILATE AREA. ABSORB SPILL WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN A CLOSED APPROPRIATE WASTE DISPOSAL.  
Waste Disposal Method: CONTACT A PERMITTED WASTE DISPOSER TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.  
Precautions For Handling/Storing: KEEP BOTTLES LOCKED UP, OUT OF REACH OF CHILDREN. KEEP CONTAINER CLOSED IN A DRY AREA  
Other Precautions: DO NOT GET IN EYES OR ON SKIN. DO NOT  
Other Precautions (cont.) INHALE VAPORS. DO NOT INGEST.  
NFPA RATING: Health 3, Flammability 0, Reactivity 1, Special W.  
HMIS RATING: Health 3, Flammability 0, Reactivity 2, Special J.