

MATERIAL SAFETY DATA SHEET

N/A=NOT APPLICABLE

EFFECTIVE DATE 5/97

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: PORSO CLEAN TILE & GROUT CLEANER (RR401)
Supplier's Name: Banner Chemical Corp.

Chemical Family: CLEANING COMPOUND
Proper Shipping Name: COMPOUNDS, CLEANING LIQUID, 8, NA1760, PGII (containing phosphoric acid)

Supplier's Address: 111 Hill St.
Orange, N.J. 07050

DOT Shipping Hazard: CORROSIVE
DOT Labels Required: CORROSIVE

EMERGENCY TELEPHONE NUMBER 1-201-676-2900

HMIS RATING(0-4): HEALTH: 1 FIRE: 1 REACTIVITY: 0

SECTION 2 - HAZARDOUS INGREDIENTS

Table with 4 columns: CHEMICAL NAME, CAS NO., % (optional), TLV(ACGIH). Row 1: *Phosphoric acid, 7664-38-2, 7, 1mg/M^3

*This toxic chemical is subject to reporting requirements of Sec. 313-SARA Title III-40CFR. Part 372.

SECTION 3 - PHYSICAL DATA

BOILING POINT: 212°F.
VAPOR PRESSURE(mmHg @ 20°C): 2 x 10-8
VAPOR DENSITY(air=1): N/A
SPECIFIC GRAVITY: 1.1-1.2

SECTION 4 - FIRE and EXPLOSION DATA

FLASH POINT: None at boiling
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Media proper to primary cause of fire
SPECIAL FIREFIGHTING PROCEDURES: Wear approved self-contained breathing apparatus.

PHYSICAL DESCRIPTION: Clear off/white liquid; slight aroma

pH: 1-3
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: 1
% VOLATILE BY VOLUME: 90

UNUSUAL FIRE & EXPLOSION HAZARD: May emit phosphorous oxide gas.

SECTION 5 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 1 mg/M^3 for phosphoric acid content
EFFECTS OF OVEREXPOSURE: EYES: Corrosive. Brief contact of liquid or mist will severely damage eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.. SKIN: Contact with liquid or mist will severely irritate and burn skin. Prolonged contact may burn or destroy surrounding tissue. INHALATION: Mist may cause acid burns to mucous membranes and irritant to respiratory system causing breathing difficulty and pulmonary edema. INGESTION: Corrosive. Causes burns to the mouth, throat esophagus and stomach with severe chest and stomach pain: difficulty in breathing, nausea, vomiting bloody diarrhea and convulsions. In severe cases causes collapse and death.

EMERGENCY & FIRST AID PROCEDURES: EYE: Immediately flush with copious amount of water for at least 15 min. while lifting eyelids. SKIN: Immediately remove contaminated clothing and discard.Wash skin with water for at least 15 min. Do not attempt to neutralize with chemicals. INHALATION: Remove patient to fresh air. If not breathing perform CPR or artificial respiration. INGESTION: Give two or more glasses of water or milk. Do not induce vomiting. If vomiting occurs, give fluids again. Never give anything by mouth to an unconscious person. In all cases consult a physician.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable under normal conditions
INCOMPATIBILITY: Iron, tin, zinc & alkaline materials.

SECTION 7 - SPILL or LEAK PROCEDURES

SPILLAGE: Contain spill and absorb with Ban-dri, earth, sand or similar inert material
WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations

HAZARDOUS DECOMPOSITION PRODUCTS: Above 550°C emits phosphorous oxide gas.
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use N-IOSH respirator
Rubber or plastic coated should be used
OTHER PROTECTIVE EQUIPMENT: Clothing cover should be used
VENTILATION: Local exhaust sufficient
EYE PROTECTION: Safety glasses or shield if splashing expected
GLOVES:

SECTION 9 - SPECIAL PRECAUTIONS

Do not get in eyes or on skin. Always wear protective clothing. Wash thoroughly after handling. Use with adequate ventilation. Store away from other chemicals and out of the reach of children. Store in a closed container away from fire and extreme heat. Keep from freezing. Use protective equipment.

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