1. Product and Company Identification

Product Code: RA405A
Product Name: RustAid Bathroom Rust Stain Cleaner Spray

Manufacturer Information
Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

Phone Number: (901)775-0100
Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
Information: W.M. Barr Customer Service (800)398-3892
Web site address: www.wmbarr.com
Preparer Name: W.M. Barr EHS Dept (901)775-0100

Synonyms
QSX20001, PSX20004, RA405

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name) | CAS # | Concentration | OSHA PEL | ACGIH TWA | Other Limits
--- | --- | --- | --- | --- | ---
1. Propylene glycol (1,2-Propanediol (not 313)) | 57-55-6 | < 5.0 % | No data. | No data. | No data.
2. Oxalic acid (Ethanedioic acid) | 144-62-7 | < 7.0 % | 1 mg/m3 | 1 mg/m3 | No data.
3. Hydrogen fluoride (Hydrofluoric acid; Flouric acid) | 7664-39-3 | < 0.5 % | 3 ppm | No data. | No data.

Hazardous Components (Chemical Name) | CAS # | OSHA STEL | OSHA CEIL | ACGIH STEL | ACGIH CEIL
--- | --- | --- | --- | --- | ---
1. Propylene glycol (1,2-Propanediol (not 313)) | 57-55-6 | No data. | No data. | No data. | No data.
2. Oxalic acid (Ethanedioic acid) | 144-62-7 | No data. | No data. | No data. | No data.
3. Hydrogen fluoride (Hydrofluoric acid; Flouric acid) | 7664-39-3 | No data. | No data. | 2 mg/m3 | No data.

3. Hazards Identification

Emergency Overview
Caution: Harmful or fatal if swallowed. May cause burns which may not be immediately apparent.

Use only with adequate ventilation. Avoid breathing of vapors or mist and contact with skin, eyes and clothing. Do not take internally.

OSHA Regulatory Status:
This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic)
THIS MATERIAL HAS NOT BEEN TESTED AS A WHOLE TO DETERMINE ACUTE AND CHRONIC HEALTH EFFECTS. THE EFFECTS LISTED BELOW ARE FOR THE INDIVIDUAL CHEMICALS LISTED IN SECTION 2 INGREDIENTS.

ACUTE EYE CONTACT:
May cause mild eye irritation. Symptoms include pain, stinging, tearing, excessive blinking, swelling, and redness. May cause conjunctivitis and corneal burns.

ACUTE SKIN CONTACT:
May cause skin irritation. Symptoms may include redness and burning of the skin. Repeated or prolonged
contact may cause dermatitis. Concentrated solutions of hydrofluoric acid is extremely corrosive to the skin, which can cause severe skin burns with ulceration and pain. Effects from hydrofluoric acid contact may not be readily apparent (delayed). Hydrofluoric acid burns may be slow in healing.

ACUTE INGESTION:
Ingestion may cause corrosion and burns of the mouth, throat, esophagus, stomach, small bowel, and digestive tract with vomiting, abdominal pain, collapse, and possible convulsions. Death may result.

ACUTE INHALATION:
May cause irritation of the nose, throat, and airways. May cause central nervous system depression, dizziness, drowsiness, weakness, nausea, headache, and unconsciousness.

Inhalation of hydrofluoric acid (HF) vapors to cause harmful effects is not expected when used as directed and during normal handling.

Symptoms of inhalation to concentrated solutions of HF may result in irritation and ulcers of the upper respiratory tract. Overexposure inhalation of HF vapors can result in pain behind the breastbone, cough, spitting blood, dyspnea, difficult breathing, bronchopneumonia, cyanosis, shock, muscle spasms, convulsions, jaundice, oliguria, albuminuria, hematuria, nausea, vomiting, abdominal pain, and diarrhea.

CHRONIC EFFECTS:
Prolonged or repeated overexposure may result in delayed liver and/or kidney damage.

**Signs and Symptoms Of Exposure**
See Potential Health Effects.

**Medical Conditions Generally Aggravated By Exposure**
Preexisting disorders of the lung and kidney.

4. **First Aid Measures**

**Emergency and First Aid Procedures**

**EYE CONTACT:**
Immediately begin flushing the eyes with water, remove any contact lens, and continue flushing for a minimum of 15 minutes. After this, get immediate medical attention.

**SKIN CONTACT:**
Immediately wash with soap and water. Remove contaminated clothing while washing. If irritation persists, get medical attention.

**INGESTION:**
Call your poison control center, hospital emergency room or physician immediately for instructions. You can immediately drink large amounts of water or milk with added milk of magnesia. Do not induce vomiting unless directed by medical personnel.

**INHALATION:**
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.

Fire Fighting Instructions
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and Hazards

FLASHPOINT: NO FLASH TO BOILING

WILL NOT BURN.

Hazardous Combustion Products
Carbon dioxide, carbon monoxide, organic compounds

Extinguishing Media
Non-combustible liquid - use extinguishing media for underlying cause of fire.

Dry Chemical, Carbon Dioxide, Foam, Water Spray

Unsuitable Extinguishing Media
None known.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled
Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Stay upwind. Wear protective equipment and clothing to prevent skin and eye contact and inhalation of vapors.

You may dilute and suppress vapors with a water fog. Neutralize product with lime. Collect material for proper disposal. Prevent runoff to sewers and bodies of water.

7. Handling and Storage

Precautions To Be Taken in Handling
Use only with adequate ventilation.
Avoid breathing of vapors or mist.
Prevent skin and eye contact.
Prevent ingestion of material.

Use with a source of water in the immediate area for flushing of the skin and eyes.

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all applicable local, state, and federal regulations. Do not reuse this container.

Precautions To Be Taken in Storing
Keep from freezing.
Store away from incompatible substances.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)
When used as directed, respiratory equipment should not be needed. Use with adequate ventilation

Wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.
Eye Protection
Where there is potential for eye contact, wear chemical goggles, or goggles with a faceshield. Have a source of clean water available for immediate flushing of the eyes.

Protective Gloves
Wear impermeable gloves. Gloves contaminated with product should be discarded.

Other Protective Clothing
Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

Engineering Controls (Ventilation etc.)
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Use only with adequate ventilation to prevent buildup of vapors.

Open windows and doors and maintain a cross ventilation of moving fresh air across the work area.

If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.

Work/Hygienic/Maintenance Practices
Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area.

Clothing that becomes soiled with product should be removed as soon as possible and laundered separately. Discard any clothing or other protective equipment that cannot be decontaminated.

9. Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid
Melting Point: ~ 32.00 F
Boiling Point: >= 212.00 F
Autoignition Pt: No data.
Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Specific Gravity (Water = 1): 1.03
Density: 8.58 LB/GL
Bulk density: No data.
Vapor Pressure (vs. Air or mm Hg): < 1 MM HG at 68.0 F
Vapor Density (vs. Air = 1): No data.
Evaporation Rate (vs Butyl Acetate=1): < 1
Solubility in Water: Soluble
Percent Volatile: 92.6 % by weight.
Heat Value: No data.
Particle Size: No data.
Corrosion Rate: No data.
pH: < 1
Appearance and Odor
Clear, green, thin

10. Stability and Reactivity

Stability:
Unstable [ ]       Stable [X]

Conditions To Avoid - Instability
No data available.

Incompatibility - Materials To Avoid
Alkales, silver compounds, strong oxidizers, strong bases, strong acids, oleum, cyanides, sulfides, carbonates, active metals.

Hazardous Decomposition Or Byproducts
Flourides, carbon monoxide, carbon dioxide, toxic formic acid, organic compounds.

11. Toxicological Information

No data available.

Carcinogenicity/Other Information
No data available.

Hazardous Components (Chemical Name) | CAS #  | NTP  | IARC | ACGIH | OSHA |
---|---|---|---|---|---|
1. Propylene glycol \(\{1,2\)-Propanediol (not 313)\) | 57-55-6 | n.a. | n.a. | n.a. | n.a. |
2. Oxalic acid \(\{\text{Ethanedioic acid}\}\) | 144-62-7 | n.a. | n.a. | n.a. | n.a. |
3. Hydrogen fluoride \(\{\text{Hydrofluoric acid; Flouric acid}\}\) | 7664-39-3 | n.a. | n.a. | n.a. | n.a. |

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method
Dispose in accordance with applicable local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)
DOT Proper Shipping Name
Compound Cleaning Liquid

Additional Transport Information
For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name) | CAS #  | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
---|---|---|---|---|---|
1. Propylene glycol \(\{1,2\)-Propanediol (not 313)\) | 57-55-6 | No | No | No | No |
2. Oxalic acid \(\{\text{Ethanedioic acid}\}\) | 144-62-7 | No | No | No | No |
3. Hydrogen fluoride \(\{\text{Hydrofluoric acid; Flouric acid}\}\) | 7664-39-3 | Yes 100 LB | Yes 100 LB | Yes | No |

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name) | CAS #  | EPA CAA | EPA CWA NPDES | EPA TSCA | CA PROP 65 |
---|---|---|---|---|---|
1. Propylene glycol \(\{1,2\)-Propanediol (not 313)\) | 57-55-6 | No | Inventory | Inventory |
2. Oxalic acid \(\{\text{Ethanedioic acid}\}\) | 144-62-7 | No | Inventory | Inventory, 8A PAIR, 12(b) |
3. Hydrogen fluoride \(\{\text{Hydrofluoric acid; Flouric acid}\}\) | 7664-39-3 | HAP | | | |
SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.

Sec.304: EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.

Sec.313: EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.

Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

Inventory: Chemical Listed in the TSCA Inventory.

5A(2): Chemical Subject to Significant New Rules (SNURS)

6A: Commercial Chemical Control Rules

8A: Toxic Substances Subject To Information Rules on Production

8A CAIR: Comprehensive Assessment Information Rules - (CAIR)

8A PAIR: Preliminary Assessment Information Rules - (PAIR)

8C: Records of Allegations of Significant Adverse Reactions

8D: Health and Safety Data Reporting Rules

8D TERM: Health and Safety Data Reporting Rule Terminations

12(b): Notice of Export

Other Important Lists:

CWA NPDES: EPA Clean Water Act NPDES Permit Chemical

CAA HAP: EPA Clean Air Act Hazardous Air Pollutant

CAA ODC: EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)

CA PROP 65: California Proposition 65

International Regulatory Lists:

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[X] Yes [ ] No Acute (immediate) Health Hazard

[X] Yes [ ] No Chronic (delayed) Health Hazard

[ ] Yes [X] No Fire Hazard

[ ] Yes [X] No Sudden Release of Pressure Hazard

[ ] Yes [X] No Reactive Hazard

16. Other Information

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.