

MATERIAL SAFETY DATA SHEET

RustAid / Goof Off Bathroom Rust Stain Cleaner

Spray

HEALTH		2
FLAMMABILITY		0
PHYSICAL HAZ.		0
PPE		X



Printed: 03/07/2011
Revision: 09/10/2010
Supersedes Revision: 09/23/2008

1. Product and Company Identification

Product Code: RA405A
Product Name: RustAid / Goof Off 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, PSX20004TEMP

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.	2 mg/m3	No data.
3. Hydrogen fluoride {Hydrofluoric acid; Flouric acid}	7664-39-3	No data.	No data.	No data.	3 ppm

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

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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.

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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.

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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 F		
Boiling Point:	>= 210 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 F		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate (vs Butyl Acetate=1):	< 1		
Solubility in Water:	Soluble		
Percent Volatile:	93 % by weight.		
Heat Value:	No data.		
Particle Size:	No data.		
Corrosion Rate:	No data.		
pH:	< 1		

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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

Alkalies, 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.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

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 {Ethanedioic acid}	144-62-7	n.a.	n.a.	n.a.	n.a.
3. Hydrogen fluoride {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 {Ethanedioic acid}	144-62-7	No	No	No	No
3. Hydrogen fluoride {Hydrofluoric acid; Flouric acid}	7664-39-3	Yes 100 LB	Yes 100 LB	Yes	Yes

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	HAP, ODC ()	No	Inventory	No

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Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
2. Oxalic acid {Ethanedioic acid}	144-62-7	HAP, ODC ()	No	Inventory	No
3. Hydrogen fluoride {Hydrofluoric acid; Fluoric acid}	7664-39-3	HAP, ODC ()	No	Inventory, 12(b)	No

EPA Hazard Categories:

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

- Yes [] No Acute (immediate) Health Hazard
- Yes [] No Chronic (delayed) Health Hazard
- [] Yes No Fire Hazard
- [] Yes No Sudden Release of Pressure Hazard
- [] Yes No Reactive Hazard

16. Other Information

Company Policy or Disclaimer

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.