

SAFETY DATA SHEET

Klean Strip Rust Remover

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Supersedes Revision: 04/22/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Klean Strip Rust Remover	
Company Name:	W. M. Barr 2105 Channel Avenue Memphis, TN 38113	Phone Number: (901)775-0100
Web site address:	www.wmbarr.com	
Emergency Contact Information:	3E 24 Hour Emergency Contact W.M. Barr Customer Service	(800)451-8346 (800)398-3892
Intended Use:	Removes rust and rust stains	
Synonyms:	WRK37	
Additional Information	This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.	

2. HAZARDS IDENTIFICATION

Corrosive To Metals, Category 1
Skin Corrosion/Irritation, Category 1B
Serious Eye Damage/Eye Irritation, Category 1



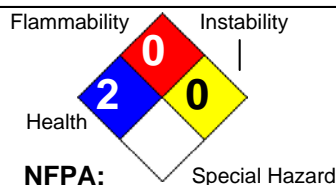
GHS Signal Word:	Danger
GHS Hazard Phrases:	H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
GHS Precaution Phrases:	P234: Keep only in original container. P260: Do not breathe gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases:	P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor/physician. P321: Specific treatment see label. P363: Wash contaminated clothing before reuse. P390: Absorb spillage to prevent material damage.
GHS Storage and Disposal Phrases:	P405: Store locked up. P501: Dispose of contents/container according to local, state and federal regulations.

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Hazard Rating System:

HEALTH	*	3
FLAMMABILITY	0	0
PHYSICAL	0	0
PPE	X	X



HMIS:

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 for health effects. The information below is for the individual ingredients listed in Section 3.

INHALATION:

Can cause irritation or corrosive burns to the upper respiratory system, including nose, mouth, and throat. Lung irritation and pulmonary edema can also occur.

SKIN CONTACT:

May cause irritation with pain and stinging, especially if the skin is abraded. May cause skin burns. May be absorbed through intact skin, but has been considered toxicologically insignificant.

EYE CONTACT:

Substance is corrosive. Causes eye irritation, May produce a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause burns and blindness.

INGESTION:

Causes irritation and can cause corrosive burns to the mouth, throat and stomach. Can be fatal if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Aspiration into the lungs may cause chemical pneumonitis.

CHRONIC EXPOSURE EFFECTS: Long term exposure may cause upper respiratory disease and irritation of the skin.

TARGET ORGANS: kidney, upper respiratory system, lung, central nervous system, eyes and skin

ROUTES OF EXPOSURE: inhalation, ingestion, absorption

Medical Conditions Generally Aggravated By Exposure: Diseases of the skin and respiratory system/lungs.

Aggravated By Exposure:

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
7664-38-2	Phosphoric acid {Orthophosphoric acid}	15.0 -40.0 %	TB6300000
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	3.0 -7.0 %	NT8050000
1341-49-7	Ammonium bifluoride {Ammonium hydrogen difluoride; Ammonium acid fluoride}	< 1.0 %	BQ9200000

Additional Chemical Information

Specific percentage of composition is being withheld as a trade secret.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:	<p>Skin: Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water for at least 15 minutes. Seek medical attention.</p> <p>Eyes: Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.</p> <p>Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.</p> <p>Ingestion: If swallowed, do NOT induce vomiting. Give one or two glasses of water, or milk if available. Seek immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.</p>
Signs and Symptoms Of Exposure:	See Potential Health Effects
Note to Physician:	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Flash Pt:	FP: No Flash To Boiling NA
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Non-combustible liquid - use extinguishing media for underlying cause of fire.
Unsuitable Extinguishing Media:	None known.
Fire Fighting Instructions:	No special instructions required. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Keep containers cool with water spray.
Flammable Properties and Hazards:	FLASHPOINT: NO FLASH TO BOILING

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:	Isolate the immediate area. Prevent unauthorized entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers. For large spills, dike ahead of the spill.
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7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Carefully read all cautions and directions on the product label before use. Protect hands with solvent-resistant gloves, and eyes with safety glasses. Use in areas with adequate ventilation. Avoid breathing vapors or mist and contact with the skin and eyes.
Precautions To Be Taken in	Close container and store upright after each use. Do not reuse the container. Store out

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Storing: of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7664-38-2	Phosphoric acid {Orthophosphoric acid}	PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data.
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
1341-49-7	Ammonium bifluoride {Ammonium hydrogen difluoride; Ammonium acid fluoride}	No data.	No data.	No data.

Respiratory Equipment (Specify Type): For OSHA controlled workplace and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for acid vapors. A dusk mask does not provide protection against vapors.

Eye Protection: Where there is potential for eye contact, wear chemical goggles, or a faceshield. Safety glasses should be worn at a minimum, but do not provide 100% protection from splashing or spraying chemical. Have eye flushing equipment immediately available.

Protective Gloves: Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing: Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. Remove contaminated clothing and wash separately before reuse.

Engineering Controls (Ventilation etc.): Use only with adequate ventilation.

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. Do not use in areas where vapors can accumulate and concentrate, Whenever possible, use outdoors in an open air area. If using indoors open all 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.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency

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eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	hazy, pink, viscous liquid	
Melting Point:	No data.	
Boiling Point:	No data.	
Autoignition Pt:	No data.	
Flash Pt:	NA	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	No data.	
Density:	9.5 LB/GL	
Vapor Pressure (vs. Air or mm Hg):	2 MM HG at 68.0 F	
Vapor Density (vs. Air = 1):	No data.	
Evaporation Rate:	No data.	
Solubility in Water:	No data.	
pH:	< 1	
Percent Volatile:	26.7 % by weight.	
VOC / Volume:	4.8000 % WT	

10. STABILITY AND REACTIVITY

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	No data available.
Incompatibility - Materials To Avoid:	acids, bases, strong oxidizers
Hazardous Decomposition or Byproducts:	carbon monoxide, carbon dioxide
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

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11. TOXICOLOGICAL INFORMATION

Toxicological Information: This product has not been tested as a whole. Refer to section 2 for acute and chronic health effects.

CAS# 7664-38-2:

Chronic Toxicological Effects:

Standard Draize Test, Skin, Species: Rabbit, 595.0 MG, 24 H, Severe.

Result:

Blood:Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970

Standard Draize Test, Eyes, Species: Rabbit, 119.0 MG, Severe.

Result:

Blood:Other hemolysis with or without anemia.

Blood:Other changes.

Biochemical: Metabolism (Intermediary): Other proteins.

- BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets., Vol/p/yr: 17-4, 1970

This product has not been tested as a whole.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7664-38-2	Phosphoric acid {Orthophosphoric acid}	n.a.	n.a.	n.a.	n.a.
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	n.a.	3	A4	n.a.
1341-49-7	Ammonium bifluoride {Ammonium hydrogen difluoride; Ammonium acid fluoride}	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: No information available for this product as a whole.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state, and federal laws.

Do not allow material to enter bodies of water or sewers.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive Liquid, n.o.s., Ltd. Qty. (Phosphoric Acid, Ammonium Biflouride)

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: 1760

Packing Group: II



Additional Transport Information:

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

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15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7664-38-2	Phosphoric acid {Orthophosphoric acid}	No	Yes 5000 LB	No
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	No	No	Yes
1341-49-7	Ammonium bifluoride {Ammonium hydrogen difluoride; Ammonium acid fluoride}	No	Yes 100 LB	No

This material meets the EPA Yes No Acute (immediate) Health Hazard
'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard
for SARA Title III Sections Yes No Fire Hazard
311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7664-38-2	Phosphoric acid {Orthophosphoric acid}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No
1341-49-7	Ammonium bifluoride {Ammonium hydrogen difluoride; Ammonium acid fluoride}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

16. OTHER INFORMATION

Revision Date: 05/08/2015
Preparer Name: W.M. Barr EHS Dept (901)775-0100
Additional Information About This Product: No data available.

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.