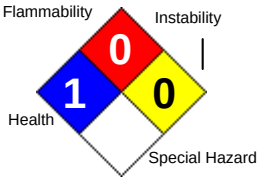
MATERIAL SAFETY DATA SHEET
Bulldog Abrasive Prep & Clean

HEALTH	-	1
FLAMMABILITY		0
PHYSICAL		0
PPE		X



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1. Product and Company Identification

Product Code: 535

Product Name: Bulldog Abrasive Prep & Clean

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

EPC535

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. Oleic acid {9-Octadecenoic acid (Z)-}	112-80-1	3.0 -7.0 %	No data.	No data.
2. Ethoxylated alcohol	68439-45-2	1.0 -5.0 %	No data.	No data.
3. Dipropylene glycol n-butyl ether	29911-28-2	1.0 -5.0 %	No data.	No data.
4. 4-Chlorobenzotrifluoride {4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene }	98-56-6	1.0 -5.0 %	No data.	No data.

3. Hazards Identification

Emergency Overview

Caution. Eye and skin irritant.

Potential Health Effects (Acute and Chronic)

This product has not been tested as a whole to determine health effects. The health effects listed below are associated with the individual ingredients listed in Section 2.

EYES:
Can cause mild irritation on prolonged contact, causing reddening, possible blurred vision and corneal inflammation.

SKIN:
Mild irritant, possibly causing surface inflammation with redness, especially on prolonged contact.

INHALATION:
May cause irritation to the respiratory tract. May produce symptoms of central nervous system depression, including headache, dizziness, nausea, loss of balance, and drowsiness.

INGESTION:
Extremely large oral doses may produce gastrointestinal disturbances, irritation, nausea, vomiting, and diarrhea.

CHRONIC OVEREXPOSURE EFFECTS:
None known.

TARGET ORGANS:
Eyes, skin, respiratory system

PRIMARY ROUTES OF ENTRY:
Inhalation, skin, ingestion

Signs and Symptoms Of Exposure

See Potential Health Effects.

Medical Conditions Generally Aggravated By Exposure

None known.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

4. First Aid Measures

Emergency and First Aid Procedures

Skin:
Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:
Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:
If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

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: No data.

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

Autoignition Pt: No data available.

Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Non-combustible material.

Flammable Properties and Hazards

Flashpoint: No flash to boiling. This material does not exhibit a flashpoint per the Setaflash Closed Cup test method.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide.

Extinguishing Media

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

Unsuitable Extinguishing Media

None known.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Isolate the immediate area. Prevent unauthorized entry. Do not touch or walk through spilled material. Wear appropriate PPE to prevent skin contact. Prevent entry into waterways, sewers, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling

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 regulations. Do not reuse this container.

Avoid contact with eyes and skin.

A source of clean water should be available in or near the work area for flushing of the eyes and skin if contact occurs.

Precautions To Be Taken in Storing

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

When used by the consumer following directions for use and with adequate ventilation, respiratory protection should not be needed.

For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

Eye Protection

Safety glasses should be worn during normal handling of this material.

Protective Gloves

Wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as nitrile rubber 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.

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. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. 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 eyewash and safety shower.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	No data.
Specific Gravity (Water = 1):	1.174
Density:	9.76 LB/GL
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	> 1
Evaporation Rate:	< 1
Solubility in Water:	No data.
Percent Volatile:	No data.
VOC / Volume:	25 G/L
pH:	7.4 - 8.4

Appearance and Odor

Paste, grey color, abrasive.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Aluminum, perchloric acid, strong oxidizers, inorganic acids, halogens, strong acids and bases

Hazardous Decomposition Or Byproducts

Carbon monoxide, carbon dioxide

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

Conditions To Avoid - Hazardous Polymerization

No data available.

11. Toxicological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Oleic Acid:
ACUTE TOXICITY:
LD50 Rat >2000 mg/kg
SKIN CORROSION / IRRITATION: Data found indicates the results to be from non-irritating to moderately irritating.
SERIOUS EYE DAMAGE / IRRITATION: Data found indicates the results to be from non-irritating to moderately irritating.
RESPIRATORY OR SKIN SENSITIZATION: It is not a skin sensitizer.
ASPIRATION HAZARD: No data.
MUTAGENIC DATA: There is no evidence of mutagenic potential. Ames test: Negative.
IMMUNOTOXICITY: No data.
NEUROTOXICITY: No data.
DEVELOPMENTAL/REPRODUCTIVE: A multi-generation study in rats has shown that repeated high doses produce no adverse reproductive effects.
CARCINOGEN STATUS: No data.

Ethoxylated Alcohols, C6-C12:
LD50 rat, oral, >2,500 mg/kg
LD50 rabbit, skin, >1,000 mg/kg
Eyes: primary irritation (rabbit): 16.7 (Maximum score is 110.)
Skin: primary irritation (rabbit): 0 (Maximum score is 8.0.)

Dipropylene Glycol n-Butyl Ether:
ACUTE TOXICITY:
LD50, rabbit, skin, >2,000 mg/kg
LD50, rat, oral, >3,700 mg/kg
LC50, rat, aerosol, 4hr, >2.04 mg/l
SKIN CORROSION / IRRITATION: Prolonged contact may cause slight skin irritation with local redness.
SERIOUS EYE DAMAGE / IRRITATION: May cause slight eye irritation. May cause slight corneal injury.
RESPIRATORY OR SKIN SENSITIZATION: Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin reactions when tested in guinea pigs.
ASPIRATION HAZARD: Based on physical properties, not likely a pulmonary aspiration hazard.
MUTAGENIC DATA: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.
IMMUNOTOXICITY: No data
NEUROTOXICITY: In animals, effects have been reported on the following organs: Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.
DEVELOPMENTAL/REPRODUCTIVE: Did not cause birth defects or any other fetal effects in laboratory animals. In animal studies, did not interfere with reproduction.
CARCINOGEN STATUS: Not classifiable as to human carcinogenicity.

4-Chlorobenzotriflouride:
ACUTE TOXICITY:
LD50 rat oral >68 g/kg

LD50 rabbit skin >2.7 g/kg
LC50 rat inhalation 4479 ppm
SKIN CORROSION / IRRITATION: Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION: Causes eye irritation.
RESPIRATORY OR SKIN SENSITIZATION: No data.
ASPIRATION HAZARD: No data
MUTAGENIC DATA: No data
IMMUNOTOXICITY: No data
NEUROTOXICITY: No data
DEVELOPMENTAL/REPRODUCTIVE: No data

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Oleic acid {9-Octadecenoic acid (Z)-}	112-80-1	n.a.	n.a.	n.a.	n.a.
2. Ethoxylated alcohol	68439-45-2	n.a.	n.a.	n.a.	n.a.
3. Dipropylene glycol n-butyl ether	29911-28-2	n.a.	n.a.	n.a.	n.a.
4. 4-Chlorobenzotrifluoride {4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene }	98-56-6	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Oleic Acid:
Toxicity:
LC50, rainbow trout, 96 hr, 1,700 mg/L
Persistence and Degradability: Biodegradation is expected to be an important fate process in soil based on half-lives of 0.2 and 0.66 days in screening tests. If released into water, un-dissociated oleic acid is expected to adsorb to suspended solids and sediment based upon the estimated Koc. Oleic acid was biodegraded 25-30% in the water column in field studies. Based upon the pKa oleic acid will exist almost entirely in the anion form at pH values of 5 to 9 and therefore volatilization from water surfaces is not expected to be an important fate process.
Bio-accumulative Potential: An estimated BCF of 10 suggests the potential for bio-concentration in aquatic organisms is low.
Mobility in Soil: If released to soil, un-dissociated oleic acid is expected to have no mobility based upon an estimated Koc of 340,000.
Other Adverse Effects: No data.

Ethoxylated Alcohols, C6-C12:
Toxic to aquatic life.
LC50, fathead minnow, 96 hrs: 9.4 mg/l
LC50, water flea, 48 hrs: 14.4 mg/l
Biodegredation: Readily biodegradable

Dipropylene Glycol n-Butyl Ether:
Toxicity:
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 > 100 mg/L in the most sensitive species listed).
LC50, guppy, static, 96 hr, 841 mg/L

LC50, water flea, static, 48 hr, immobilization, > 1,000 mg/L
Persistance and Degradability: Material is readily biodegradable.
Bioaccumulative Potential: Potential is low.
Mobility In Soil: High potential for mobility in soil.

4-Chlorobenzotriflouride:
Toxicity:
LC50 rainbow trout 96 hour 13.5 mg/L
LC50 bluegill sunfish 96 hour 12.0 mg/L
LC50 water flea 48 hour 12.4 mg/L
Persistance and Degradability: No data.
Bioaccumulative Potential: An estimated BCF of 320 suggests the potential for bioconcentration in aquatic organisms is high.
Mobility In Soil: Expected to have slight mobility in soil.
Other: PCBTF has exhibited significant toxicity to aquatic species under laboratory conditions, but is unlikely to exhibit a similar degree of acute toxicity under environmental conditions due to solubility and volattility issues. Volatility, and relative environmental partitioning characteristics, makes it unlikely that PCBTF represents a significant threat to acquatic or terrestial environments.

13. Disposal Considerations

Waste Disposal Method

Dispose of in accordance with local, state, and federal laws.

Do not place material in general trash.

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

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not regulated by D.O.T.

Additional Transport Information

No data available.

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. Oleic acid {9-Octadecenoic acid (Z)-}	112-80-1	No	No	No	No
2. Ethoxylated alcohol	68439-45-2	No	No	No	No
3. Dipropylene glycol n-butyl ether	29911-28-2	No	No	No	No
4. 4-Chlorobenzotrifluoride {4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene }	98-56-6	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Oleic acid {9-Octadecenoic acid (Z)-}	112-80-1	HAP, ODC ()	No	Inventory	No
2. Ethoxylated alcohol	68439-45-2	HAP, ODC ()	No	Inventory	No
3. Dipropylene glycol n-butyl ether	29911-28-2	HAP, ODC ()	No	Inventory, 8A PAIR, 8D TERM	No

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
4. 4-Chlorobenzotrifluoride {4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene }	98-56-6	HAP, ODC ()	No	Inventory, 4 Test	No

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

[ ] Yes [X] 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

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.