

MATERIAL SAFETY DATA SHEET

BIRCHWOOD CASEY®
BARRICADE® (formerly Sheath®)
RUST PREVENTIVE AEROSOL

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 DATE REVISIED: 6/1/10
 REVISION MSDS NO. 5

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BARRICADE® RUST PREVENTIVE AEROSOL**

PRODUCT PART NUMBERS: 33126, 33135, 33140, 33389, BPA2, BPA6, BPA10

MANUFACTURED BY: BIRCHWOOD LABORATORIES, INCORPORATED
 7900 Fuller Road
 Eden Prairie, MN 55344 USA
 Product Information Telephone Number: (952) 937-7900 (8:00-4:00pm CST)
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24 HOUR TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA
703-527-3887 INTERNATIONAL (Collect)
24 HOUR POISON CONTROL EMERGENCY NUMBER: 866-291-7152 U.S. & CANADA

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **DANGER! Harmful or fatal if swallowed. Extremely flammable.** Keep away from sparks and open flames. Containers involved in fire may explode. Irritating to eyes, skin, upper respiratory tract.

APPEARANCE/ODOR: Opaque light brown liquid, solvent odor.

EYE CONTACT: Irritation upon direct contact.

SKIN CONTACT: Prolonged contact may cause irritation and dermatitis.

INGESTION: Irritation to the gastrointestinal tract.

INHALATION: Inhalation of high vapor concentrations may cause central nervous system effects, and symptoms such as headache, dizziness, disorientation. Extremely high vapor concentrations may lead to asphyxiation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Description	CAS #	Weight %	OSHA PEL* TWA	OSHA PEL STEL/C	ACGIH TLV TWA	ACGIH TLV STEL/C
Propane	74-98-6	18	1000 ppm	NE	1000 ppm	NE
Isobutane	106-97-8	14	NE	NE	NE	NE
Severely Hydrotreated Heavy Naphthenic Distillate	64742-47-8	47	NE	NE	NE	NE
Mineral Oil	64742-52-5	8	5 mg/m ³	NE	5 mg/m ³ (**)	10 mg/m ³ (**)
Heavy Petroleum Oxygenates, Barium neutralized	Mixture	11	NE	NE	NE	NE
Propylene Glycol Monomethyl Ether	107-98-2	2	100 mg/m ³ (skin)	NE	100 mg/m ³	150 mg/m ³ -STEL

TWA – Time-weighted Average **STEL** – Short-term exposure limit **C** – Ceiling (skin) – skin designation means that harmful amounts may be absorbed through the skin

* Certain States enforce PELs that were in place in 1989, but were later removed by the U.S. Supreme Court. Check with your State OSHA to determine which PEL is enforced in your State.

** as “oil mist, mineral”, sampled by a method that does not collect vapor

NE = not established **NA** = not applicable **NDA** = no data available

4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Continue for at least 15 minutes. Seek medical attention if necessary.

SKIN CONTACT: Remove contaminated clothing to avoid prolonged contact. Wash affected areas with water. Seek medical attention if irritation develops.

INGESTION: Call Poison Control Center immediately. Do not induce vomiting. If victim is conscious, give 1 – 2 glasses of water.

INHALATION: Remove from exposure. Seek medical attention if necessary if breathing is difficult.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: ~ -156°F (based on propellant) **METHOD USED:** NDA

FLAMMABLE LIMITS: LFL: 1.8 % UFL: 9.5 %

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical

FIRE & EXPLOSION HAZARDS: Excessive heat may cause bursting of aerosol cans. Vapors are heavier than air, and may travel along low surfaces to ignition sources, resulting in flashback.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear approved SCBA and full turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended protective equipment. Eliminate ignition sources. Ventilate area. Vent remaining material to outdoor air.

Review current local, state and federal laws, codes, statutes, and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. (See Section 13 for waste disposal comments).

7. HANDLING AND STORAGE

HANDLING: Avoid breathing mists or vapor. Avoid eye and skin contact. Prohibit smoking in the area and exclude sources of spark or open flame. Avoid static discharge. Wear protective equipment when handling product. Empty containers may still have product residue and combustible vapors. Do not puncture or incinerate. Keep out of the reach of children.

STORAGE: Do not store where temperature may exceed 120°F.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use a NIOSH approved respirator (Full or half-face supplied-air or organic vapor cartridge/N95 type) if any of the occupational exposure limits in Section 3 may be exceeded.

EYE PROTECTION: safety glasses with side shields, or goggles

PROTECTIVE GLOVES / BODY PROTECTION: neoprene or butyl rubber

VENTILATION: Use general/dilution or local exhaust ventilation as needed to ensure that occupational exposure limits are not exceeded. Do not use in enclosed spaces.

OTHER PROTECTIVE EQUIPMENT: Eyewash

NOTE: All PPE should be selected on the basis of an exposure assessment performed by a competent person.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: [-44] – [- 300°F] (range)	SPECIFIC GRAVITY: (Water = 1): < 1
VAPOR PRESSURE: ~ 67 psig	VOLATILE BY VOLUME: ~ 80%
VAPOR DENSITY: (Air = 1): >1	EVAPORATION RATE: (Ethyl Ether = 1): < 1
SOLUBILITY IN WATER: Negligible	pH: NA
APPEARANCE: Opaque light brown liquid	ODOR: solvent odor

10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Avoid high temperatures and ignition sources.

INCOMPATIBILITY (materials to avoid): Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, aldehydes

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

There is no product based toxicological information for this product. Toxicology information is provided based on individual ingredients.

LD_{50s}, oral, rat: 5660 mg/kg (Propylene Glycol Monomethyl Ether)

TARGET ORGANS: Eyes, skin, lungs (irritant), CNS. Prolonged or repeated skin exposure may cause dermatitis.

Medical conditions that may be aggravated by exposure: Pre-existing skin, eye, respiratory or CNS disorders.

Carcinogenicity: IARC: 3* (mineral oil) NTP: None OSHA: None

* unclassifiable regarding carcinogenicity in humans (for mineral oils, highly refined)

12. ECOLOGICAL INFORMATION

ECOTOXICITY: NDA

ENVIRONMENTAL FATE: NDA

13. DISPOSAL CONSIDERATIONS

Empty can and discard as solid trash. Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be dealt with by a licensed facility or waste hauler. Note: If incinerated, the resulting ash will contain extractable barium. A waste with extractable barium of 100 ppm or greater is assigned EPA Hazardous Waste Number D005 (Toxicity Characteristic – Barium).

14. TRANSPORT INFORMATION

D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:

Aerosols, Flammable / 2.1 / UN1950 / (Not exceeding 1 liter capacity) / Exceptions: CFR173.306

15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT): the materials in this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response compensation and Liability Act, 40 CFR 117, 302: Reportable Quantity - NDA

SARA TITLE III (Superfund Amendments and Authorization Act):

Section 311/312:

Immediate Health Effects: Yes

Delayed Health Effects: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: Yes

Reactivity Hazard: No

Section 313 Reportable Ingredients: Propylene Glycol Monomethyl Ether, Barium compounds in heavy petroleum oxygenates (Barium < 1%).

STATE "RIGHT-TO-KNOW": This product may contain components cited on certain state lists. Consult with your individual State regarding this product's components.

16. OTHER INFORMATION

National Fire Protection Association (NFPA): Health: 2 Flammability: 4 Reactivity: 0

The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.

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FOR ASSISTANCE WITH PLACING ORDERS:

- Product Pricing / Payment Terms
- Shipping and Tracing of Shipments
- Sales Rep Locations

Call our Sales Department (952) 937-7933

Or 1-800-328-6156 or Fax (952) 937-7979

FOR PRODUCT USAGE ASSISTANCE

- Questions on Operation of Products
- Solving Finishing Problems
- Operator Safety and Pollution Control

Call our Customer Service Desk (952) 937-7916

Or 1-800-328-6156 or Fax (952) 937-7979