

ASTEC CORPORATION
Material Safety Data Sheet

PRODUCT NAME: *Advantage Carpet & Upholstery Cleaner*

CHEMICAL FAMILY: *NA*

FORMULA: *Proprietary*

MSDS EFFECTIVE DATE: *7/22/98*

MANUFACTURER'S NAME AND ADDRESS: *ASTEC CORPORATION
7750-650 ZIONSVILLE ROAD
INDIANAPOLIS, INDIANA 46268*

MANUFACTURER'S TELEPHONE NUMBER: *317-872-7550*

CHEMTREC'S TELEPHONE NUMBER: *800-424-9300 (Only in the case of a spill, leak, fire exposure or accident involving chemicals.)*

SECTION 2--COMPONENTS

| INGREDIENTS | CAS# | % | EXPOSURE LIMITS |
|--|--------------------|--------------|------------------------|
| <i>CITRUS TERPENES</i> | <i>5989-27-5</i> | <i>NA</i> | <i>(4)</i> |
| <i>DIETHYLENE GLYCOL N-BUTYL ETHER</i> | <i>000112-34-5</i> | <i>5-10</i> | <i>35 PPM (3)</i> |
| <i>SODIUM SILICATE</i> | <i>6834-92-0</i> | <i><5</i> | <i>2 MG/M3 (1),(2)</i> |

Exposure limit data source: (1) ACGIH Threshold Limit Values, (2) Federal OSHA Permissible Exposure Limit, (3) Chemical Manufacturer Recommended Guidelines and (4) None established.

SECTION 3--PHYSICAL DATA

BOILING POINT: *APROX. 212 DEG F*

SOLUBILITY IN WATER: *COMPLETE*

VAPOR PRESSURE: *NE*

SPECIFIC GRAVITY (Water=1): *1.04*

VAPOR DENSITY (AIR=1): *NE*

PERCENT VOLATILE: *Appr. 75*

EVAPORATION RATE (BuAc=1): *<1*

pH: *9.9 at 15:1 dilution*

APPEARANCE AND ODOR: *Clear amber colored liquid with citrus odor.*

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SECTION 4--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): *NA*

FLAMMABLE LIMITS-

LOWER FLAME LIMIT: *NA*

HIGHER FLAME LIMIT: *NA*

EXTINGUISHING MEDIA: *Water fog, dry chemical, foam, carbon dioxide.*

SPECIAL FIRE FIGHTING PROCEDURE: *Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.*

UNUSUAL FIRE AND EXPLOSION HAZARDS: *None known.*

SECTION 5--REACTIVITY DATA

STABILITY: *Stable.*

CONDITIONS TO AVOID: *NA*

INCOMPATIBILITY (MATERIALS TO AVOID): *NA*

HAZARDOUS DECOMPOSITION PRODUCTS: *None known.*

HAZARDOUS POLYMERIZATION: *Will not occur.*

CONDITIONS TO AVOID: *None known.*

SECTION 6--HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: *NE*

OSHA THRESHOLD LIMIT VALUE: *NE*

ACGIH THRESHOLD LIMIT VALUE: *NE*

CARCINOGEN UNDER NTP PROGRAM: *NO*

CARCINOGEN UNDER IARC PROGRAM: *NO*

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE CONTACT: *Moderate irritation or burning.*

SKIN CONTACT: *Moderate irritation.*

INHALATION: *Possible irritation to nasal passages.*

CHRONIC EFFECTS OF OVEREXPOSURE: *None known.*

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: *None known.*

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EMERGENCY FIRST AID:

EYE CONTACT: Immediately irrigate eyes with cool flowing water continuously for 15 minutes while blinking eyelids. Get medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash contact area with mild soap and water. Rinse thoroughly. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

INHALATION: Remove victim to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

INGESTION: Do not induce vomiting. For a conscious victim, drink two or more cups of milk or water. Never give anything to an unconscious person. Get medical attention immediately.

SECTION 7--SPILL OR LEAK PROCEDURES

SPILL RESPONSE: Wear all protective equipment set forth in SECTION 8--SPECIAL PROTECTION INFORMATION. Provide ventilation. Contain spill. Absorb on inert material or salvage material. Rinse residue with plenty of water.

WASTE DISPOSAL METHOD: Waste treatment and/or neutralization may be required prior to discharge to a sewer. Follow all federal, state, and local regulations including those related to the disposal of empty containers.

SECTION 8--SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Safety glasses or goggles.

SKIN PROTECTION: Impervious gloves and protective clothing.

RESPIRATORY PROTECTION: Concentration in air determines protection needed. If exposure limits set forth in SECTION 2--COMPONENTS may be exceeded, wear NIOSH/MSHA approved respiratory protection.

VENTILATION: Ventilate as needed to comply with exposure limits, if indicated, set forth in SECTION 2--COMPONENTS.

OTHER PROTECTION: Eyewash stations and safety showers recommended near work area.

SECTION 9--SPECIAL PRECAUTIONS

STORAGE AND HANDLING PRECAUTIONS: Keep containers closed and in an upright position when not in use. Store in a dry area between temperatures of 40 deg. F and 90 deg. F. Do not pressurize container. Do not reuse empty container. Empty containers may contain product residue and be hazardous. Do not cut, puncture or weld on or near empty containers. All labeled precautions must be observed. Dispose of container in accordance with legal regulations.

REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow all protective information specified in SECTION 8--SPECIAL PROTECTION INFORMATION.

OTHER PRECAUTIONS: Do not repack product. Follow directions for use on product label.

SECTION 10--REGULATORY INFORMATION

EPA. -TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory.

Date Printed: 2/4/2003

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EPA. -SARA TITLE III, SECTION 313 (40 CFR 372): *This product contains the following substances subject to the reporting requirements of SARA (1986, Section 313) and 40 CFR Part 372:*

| <u>Chemical Name</u> | <u>CAS#</u> | <u>Concentration</u> |
|----------------------|-------------|----------------------|
| <i>Glycol Ethers</i> | | <i><5</i> |

DOT-DEPT. OF TRANSPORTATION HAZARDOUS MATERIALS REGULATIONS (49 CFR):

PROPER DOT SHIPPING NAME: *NA*

DOT HAZARD CLASS, ID#, AND PACKING GROUP: *NA*

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATINGS:

Health: 1
Flammability: 0
Reactivity: 0
Personal Prot.: B

The above ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard.

***** **NOTICE** *****

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NOTE:

NA = Not Applicable
NE = Not Established
Appr. = Approximately

END OF MATERIAL SAFETY SHEET