

CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-253

ISSUE DATE: 09/05/02

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1. PRODUCT IDENTIFICATION

Product Name

ARM & HAMMER® VACUUM FREE™ Foam Carpet Deodorizer
(All scents)

Emergency Phone:

1-609-683-5900 (U.S.A.)

Medical Emergency Phone:

1-888-234-1828

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredient</u>	<u>(% by Weight)</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Isobutane	21%	75-28-5	NE	NE
Propane	4%	74-98-6	1000 ppm	Simple Asphyxiant
Ethanol	4%	64-17-5	1000ppm	1000 ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Inhaling contents in concentrated form may produce drowsiness and upper respiratory discomfort.

May cause transient irritation or stinging if sprayed in eyes.

No other significant health or environmental effects associated with normal consumer use of this product.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this MSDS differ from the labeling requirements of the CPSC and, as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

CONTENTS UNDER PRESSURE

STORAGE CLASSIFICATION: LEVEL I

HMIS Rating

Health	1
Fire	1
Reactivity	0

Potential Health Effects

CORPORATE HEADQUARTERS: 469 North Harrison street • Princeton, New Jersey 08543-5297 • Phone (609) 683-5900



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EYE: May cause transient stinging and irritation.

SKIN CONTACT: Not a skin irritant.

INGESTION: Not a primary route of exposure due to containment of product. Concentrate is practically non-toxic.

INHALATION: Practically non-toxic, but may aggravate an existing allergic or asthmatic condition.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known. Not classified as carcinogenic by NTP, IARC, OSHA, ACGIH or NIOSH.

4. FIRST AID MEASURES

EYES: Flush eyes with water for 15 minutes. Seek medical attention if irritation develops and persists.

SKIN: Rinse exposed areas thoroughly with water.

INHALATION: Remove individual to fresh air. If breathing is difficult or labored, seek medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Non-flammable aerosol based on flame projection tests.

FLAMMABLE LIMITS

LFL: Not determined. LFL's for isobutane, propane, and ethanol are 1.8 , 2.1, and 3.3%, respectively.

UFL: Not determined. UFL's for isobutane, propane, and ethanol are 8.4, 9.5, and 19%, respectively.

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical.

FIRE-FIGHTING INSTRUCTIONS: Wear full protective equipment including face shields, self-contained breathing apparatus (SCBA) and bunker gear. Keep personnel removed and upwind of fire. Cool containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If cans are exposed to fire or temperatures greater than 160°F they will blow apart creating a projectile hazard. Approximately 75% of contents is a water solution.

6. ACCIDENTAL RELEASE MEASURES

Not a likely occurrence. If cans are crushed or punctured and leak contents, use absorbent to soak up and dispose in suitable waste container.

7. HANDLING AND STORAGE

Do not drop, puncture or incinerate cans. Do not store cans above 120°F. Avoid freezing temperatures. Do not store near products that may emit chlorine vapors, such as cleaners or bleach. Aerosol Storage Classification: LEVEL I.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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RESPIRATORY PROTECTION: Not required under normal use conditions.

PROTECTIVE GLOVES: Not normally required.

EYE PROTECTION: Workers must wear goggles or glasses with protective side shields during manufacture.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No special requirements.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements with respect to chemical exposure or under normal use and handling conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fine aerosol foam upon spraying.

ODOR: As described on label.

PHYSICAL STATE: Aerosol (pressurized container).

pH: 8.2 - 8.7 for aerosol concentrate.

CAN PRESSURE: Approximately 55 psig @ 70°F and 125 psig @ 130°F.

DELIVERY RATE: 2.3 - 2.8 g/sec.

SPRAY PATTERN: 6.5 - 8.5 inch solid cone pattern at 24" from surface.

FREEZING/MELTING POINT: Not applicable.

SOLUBILITY IN WATER: Complete for concentrate.

SPECIFIC GRAVITY (Water = 1): 0.990 - 0.995 g/cc for concentrate.

VOLATILE ORGANIC COMPOUNDS: 29%

MOLECULAR WEIGHT: Not applicable - mixture.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Temperatures above 120°F. Open flame.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, sodium and sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: No specific data. Mild transient irritation is possible.

SKIN EFFECTS: No specific data. Would not be expected to cause skin irritation or sensitization.

ACUTE ORAL EFFECTS: No specific data. Not a primary route of exposure. LD₅₀ of concentrate (water-based solution) would be >5 g/kg based on composition.

ACUTE INHALATION EFFECTS: No specific data. LC₅₀ would be > 5 mg/L based on composition.

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12. ECOLOGICAL INFORMATION

TOXICITY: No data available

PERSISTENCE: No data available

BIOACCUMULATION: No data available

13. DISPOSAL CONSIDERATIONS

Do not crush or incinerate cans containing propellant. Empty cans completely (through use-up) and dispose in general trash or recycle. Consult appropriate local, state or federal agency for disposal of large quantities of pressurized cans.

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Aerosols, non-flammable

TECHNICAL SHIPPING NAME: NA

D.O.T. HAZARD CLASS: 2.2

U.N./N.A. NUMBER: UN1950

HAZARDOUS SUBSTANCE/RQ: Not Applicable

D.O.T. LABEL: ORM-D, Consumer Commodity

D.O.T. PLACARD: None

15. REGULATORY INFORMATION

The ingredients in this product are listed in the EPA TSCA Inventory List.

16. OTHER INFORMATION

SUPERSEDES DATE: 04/06/01

REASON FOR REVISION: Conversion to a 16 Section Format and

added ecological information.

For additional non-emergency health, safety and environmental information telephone 609.279.7705 or write to:

Church & Dwight Co Inc.

R & D Technical Regulatory Affairs

469 North Harrison Street

Princeton, New Jersey 08543

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