

# CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS



## MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-657

ISSUE DATE: 02/02/04

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### 1. PRODUCT IDENTIFICATION

Product Name

ARM & HAMMER® DEODORANT ANTIPERSPIRANT SPRAY  
(ALL SCENTS)

Emergency Phone:

1-609-683-5900 (U.S.A.)  
416-444-5241 (CAN.)

Medical Emergency Phone:

1-800-228-5635 Ext. 007 (U.S.A.)

### 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> |
|----------------------------|----------------------|-------------------|-----------------|------------------|
| Aluminum Chlorohydrate     | 10 - 20%             | 12042-91-0        | NE              | NE               |
| Cyclomethicone             | 15 - 25%             | 00541-02-6        | NE              | NE               |
| n-Butane                   | 30 - 40%             | 00106-97-8        | NE              | 800 ppm          |
| 1,1 Difluoroethane         | 10 - 20%             | 00075-37-6        | NE              | NE               |

Exempt from OSHA and WHMIS as packaged consumer drug and cosmetic products.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Flammable aerosol.

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

No significant health or environmental effects associated with normal consumer use of this product. May cause transient irritation or stinging if sprayed in eyes.

FLAMMABLE. CONTENTS UNDER PRESSURE

STORAGE CLASSIFICATION: LEVEL II

HMIS Rating

|            |   |
|------------|---|
| Health     | 1 |
| Fire       | 3 |
| Reactivity | 0 |

Potential Health Effects

EYE: May cause transient conjunctival irritation.

SKIN CONTACT: Not a skin irritant. Contact with liquified propellant may cause frostbite.

INGESTION: Not a primary route of exposure due to containment of product.

INHALATION: None expected under normal use conditions. Inhalation of high concentrations may result in drowsiness and respiratory discomfort.

SUBCHRONIC EFFECTS/CARCINOGENICITY: None known. See Section 14.

### 4. FIRST AID MEASURES



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**EYES:** Remove contacts if present. Flush eyes with clean flowing water, low pressure and lukewarm if possible, occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.

**SKIN:** Rinse affected area thoroughly with soap or mild detergent and warm water. If irritation persists, or if burns from propellant frostbite are present, seek medical attention.

**INHALATION:** If over exposure occurs, remove individual to fresh air. If breathing has stopped, give artificial respiration and seek medical attention.

### 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

FLASHPOINT: Flammable

METHOD USED: 16 CFR 1500.45 (Flame Extension)

#### FLAMMABLE LIMITS

LFL: Not determined for product. LFL of n-Butane is 1.8%.

UFL: Not determined for product. UFL of n-Butane is 8.4%.

**EXTINGUISHING MEDIA:** Carbon dioxide, water, water fog or spray, dry chemical or foam.

**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. Flashback along vapor trail may occur.

### 6. ACCIDENTAL RELEASE MEASURES

Not a likely occurrence. If cans are crushed or punctured and leak contents, avoid ignition sources. Use absorbent to soak up spilled concentrate and place in suitable waste containers for disposal.

### 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 as they may cause the cans to rust. Aerosol Storage Classification: Level II.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Not normally required. If excessive exposure to vapors or mists occur, use a NIOSH/MSHA approved respirator with an organic vapor/mist cartridge.



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**PROTECTIVE GLOVES:** Not normally required. Rubber gloves recommended for workplace exposure to liquified propellant.

**EYE PROTECTION:** Not required under normal use conditions. Goggles and face shield should be worn if exposed to workplace can gassing and hot water bath operations.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** No special requirements.

**PROTECTIVE WORK/HYGIENIC PRACTICES:** No special requirements with respect to the aerosol product beyond those described above. Specific requirements with respect to equipment and filling operations are the responsibility of the filler/packager.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Fine aerosol mist when valve is depressed and contents expelled.

**ODOR:** As described on product label.

**PHYSICAL STATE:** Two phase aerosol in a stainless steel can.

**pH AS IS:** Not applicable

**VAPOR PRESSURE @ 70°F:** 40-50 psig.

**VAPOR PRESSURE @ 130°F:** 105-120 psig.

**VAPOR DENSITY:** Not determined.

**BOILING POINT:** Not applicable.

**FREEZING/MELTING POINT:** Not applicable.

**SOLUBILITY IN WATER:** Not determined.

**SPECIFIC GRAVITY (Water = 1):** Not determined.

**TOTAL VOLATILE ORGANIC COMPOUNDS:** 70%

**HIGH VOLATILITY ORGANIC COMPOUNDS:** 37%

### 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

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

**INCOMPATIBILITY WITH OTHER MATERIALS:** Acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide, carbon monoxide, silicon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

**EYE EFFECTS:** No specific data. Product is expected to produce no more than slight transient conjunctival irritation based upon available information on the ingredients.

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**SKIN EFFECTS:** No specific data on aerosolized product. Concentrate was non-irritating in a 48 hour human patch test.

**ACUTE ORAL EFFECTS:** Not a likely route of exposure. If concentrate is somehow ingested, abdominal discomfort is the expected effect.

**ACUTE INHALATION EFFECTS:** No specific data. Over-exposure may cause coughing or choking. Exposure to high concentrations of product may cause drowsiness or lethargy.

### 12. ECOTOXICOLOGICAL INFORMATION

No data Available

### 13. DISPOSAL CONSIDERATIONS

Do not crush or incinerate cans containing propellant. Empty cans completely through use-up or proper industrial can evacuation practices. Dispose of cans 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: Consumer Commodity  
TECHNICAL SHIPPING NAME: Aerosols, flammable  
D.O.T. HAZARD CLASS: 2.1  
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

#### CONSUMER USE

**USA:** Regulated by Federal Food, Drug and Cosmetic Act, Consumer Product Safety Act, and Federal Hazardous Substances Act. As such, these products are exempt from the OSHA requirements under 29 CFR 1910.1200.

**CANADA:** Regulated by the Food and Drugs Act, Consumer Packaging and Labeling Act, and Hazardous Products Act, and as such, are exempt from WHMIS.

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

The ingredients in this product are not listed as carcinogens or potential carcinogens by NTP Annual Report, IARC Group I or II, OSHA 29 CFR Part 1910 Subpart Z, or ACGIH Appendix A.

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### 16. OTHER INFORMATION

SUPERSEDES DATE: 03/09/00 REASON FOR REVISION: 16 Section Format, DOT update.

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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