CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS • SPECIALTY PRODUCTS

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name

ARM & HAMMER® CAT LITTER ADDITIVE

Emergency Phone:
1-609-683-5900 (U.S.A.)
Medical Emergency Phone:
1-888-234-1828

Information Phone:
1-416-444-5241 (Canada)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredient	% By Weight	CAS Number
Sodium Bicarbonate	> 90%	144-55-8
Fragrance Blend	< 2%	proprietary mixture

Consumer Use: Exempt from OSHA and WHMIS requirements as a packaged consumer household product. These products would not be considered hazardous under the OSHA and WHMIS Standards.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White to off-white crystalline powder.
Potential workplace nuisance dust.
Not a fire hazard.
No significant health or environmental effects associated with this material.

HMIS Rating	
Health	1
Fire	0
Reactivity	0

Potential Health Effects

EYE: Not an eye irritant. Potential for slight irritation due to mechanical action if eyes are left unwashed.

SKIN CONTACT: Not a skin irritant.

INGESTION: Material is considered non-toxic. Ingestion of small amounts (1-2 tablespoonfuls) are not likely to cause injury. Ingestion of larger amounts may cause abdominal discomfort or injury.

INHALATION: Inhalation of dusts may cause irritation to the nose, throat and lungs.

SUBCHRONIC EFFECTS/CARCINOGENICITY: Not listed as carcinogenic IARC, NTP, OSHA, ACGIH or NIOSH.

4. FIRST AID MEASURES

EYES: Flush eyes with clean flowing water, low pressure and lukewarm if possible, for 15 minutes, occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.

SKIN: Wash exposed areas with soap or mild detergent and water.

INHALATION: Remove from area of exposure. Treat symptomatically. Seek medical attention if person has difficulty breathing.

INGESTION: If large amounts of material are swallowed, do not induce vomiting. If person is conscious, give two glasses of water to drink. **Do not attempt to give anything orally to an unconscious person**. Seek medical attention.

NOTE TO PHYSICIAN: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema. Normal body mechanisms will handle excretion of excess material. Treatment based on judgement of physician in reaction to patient.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
FLASHPOINT: Not flammable
METHOD USED: Not applicable

FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable

EXTINGUISHING MEDIA: Non-combustible material. Use extinguishing media appropriate for surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Carbon dioxide and irritating dusts may be generated by thermal decomposition. Wear a self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Scoop up into a clean, dry waste container. Avoid stirring up dusts. Wash away residue with water.

7. HANDLING AND STORAGE

Store in cool, dry areas and away from incompatible substances (acids). If large amounts of dust are generated during handling, use of appropriate protective equipment is recommended (see Section 8).
This product will react with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide levels have been determined to be safe.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDED EXPOSURE LIMIT: 10 mg/m^3 as a nuisance dust (ACGIH).

RESPIRATORY PROTECTION: Not normally required. Wear a NIOSH approved dust respirator if dust level exceeds recommended exposure limit.

PROTECTIVE GLOVES: Not normally required. Wear general purpose gloves for excessive handling and exposure conditions.

EYE PROTECTION: Not normally required. Safety glasses with side shields or safety goggles are recommended if excessive dust is generated.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clean body covering is sufficient.

ENGINEERING CONTROLS: Use local exhaust if total dust level exceeds 10 mg/m^3.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements other than those noted above with respect to chemical exposure during handling. Personal protection and good industrial hygiene practices with respect to specific applications of this material are the responsibility of the user.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to off-white crystalline powder
ODOR: As per label description
PHYSICAL STATE: Solid
pH AS IS: Not applicable
pH (1% SOLN. w/v): 8.2
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
BOILING POINT: Not applicable
FREEZING/MELTING POINT: Not applicable
SOLUBILITY IN WATER: Approximately 8% @ 20°C
SPECIFIC GRAVITY (Water = 1): Approximately 0.5 g/cc @ 20°C.
% VOLATILE: < 2%
VOLATILE ORGANIC COMPOUNDS: < 2%
MOLECULAR WEIGHT: Not applicable (mixture)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable CONDITIONS TO AVOID: Temperatures above 200°F.

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to form carbon dioxide. May yield corrosive caustic soda if mixed with lime dust and water.

HAZARDOUS DECOMPOSITION PRODUCTS: Yields carbon dioxide at temperatures over 200°F, and sodium oxide if exposed to temperatures above 1500°F.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Based on tests on a similar formula conducted in accordance with 16 CFR 1500.42, and knowledge of the specific ingredients, this product is not considered an eye irritant.

SKIN EFFECTS: Not a skin irritant per 16 CFR 1500.40, and not a skin sensitizer. Based on tests on a similar formula conducted in accordance with 16 CFR 1500.41, in addition to knowledge of the toxicity characteristics of the specific ingredients, this product would be considered non-toxic dermally.

ACUTE INHALATION: Based on tests on a similar formula conducted in accordance with 16 CFR 1500.3, this product would be considered practically non-toxic via the inhalation route.

ACUTE ORAL EFFECTS: Based on tests on a similar formula conducted in accordance with 16 CFR 1500.3, this product is estimated to have an LD_{50} >5 g/kg.

12. ECOTOXICOLOGICAL INFORMATION

AQUATIC TOXICITY:

Daphnids:	EC_{50} = 4100 mg/l.
Bluegill:	LC_{50} = 7100 mg/l.
Rainbow Trout:	LC_{50} = 7700 mg/l.

PERSISTENCE: This material is not expected to persist in the environment.
BIOACCUMULATION: This material is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Landfill in accordance with all local, state and federal environmental regulations. State and local regulations may differ from federal. Be sure to consult appropriate agencies for specific rules. Empty containers may be incinerated or discarded as general trash.

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated
TECHNICAL SHIPPING NAME: ARM & HAMMER® Cat Litter Additive
D.O.T. HAZARD CLASS: None
U.N./N.A. NUMBER: None
HAZARDOUS SUBSTANCE/RQ: None
D.O.T. LABEL: None
D.O.T. PLACARD: None

15. REGULATORY INFORMATION

The ingredients in this product are reported in the U.S. EPA TSCA Inventory and appear on the Canadian DSL.

16. OTHER INFORMATION

SUPERSEDES DATE: 12/21/98

REASON FOR REVISION: Conversion to a new 16 Section MSDS format and added Ecotox Information.

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

Church & Dwight Co. Inc.
469 North Harrison Street
Princeton, New Jersey 08543

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