

[][][] - MATERIAL SAFETY DATA SHEET - [][][]

COMPLIES WITH OSHA HCS 29, CFR 1910.1200 - ND OSHA 174

PRODUCT NAME (AS USED ON LABEL)

AMMONIA  
HOUSEHOLD 3.5% - AS LABELED

EMERGENCY TELEPHONE NUMBERS: 1-313-782-2234  
1-313-283-1192

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SECTION #1

MANUFACTURER

Rooto Corporation  
3505 West Grand River  
Howell, MI 48843

TELEPHONE NUMBER FOR GENERAL INFORMATION: 1-313-843-4500

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SECTION #2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Name)	OSHA (PEL)	ACGIH (TEL)	
AMMONIA (AS NH3) *(AMMONIA GAS)	50ppm	25ppm	NIOSH 50ppm
HOUSEHOLD AMMONIA- FINISHED PRODUCT CAS # 1336-21-6	N/A	N/A	

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SECTION #3-PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 191 to 212 degrees F.	MELTING POINT: N/A
VAPOR PRESSURE: N/A	FREEZING POINT: 22F
SPECIFIC GRAVITY: 0.9890	PH: 11.5
EVAPORATION RATE: 1	VAPOR DENSITY: N/A
SOLUBILITY IN WATER: Complete	
APPEARANCE/ODOR: Clear, cloudy white or colored liquid with a distinct pungent ammonia odor.	

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SECTION #4-FIRE & EXPLOSIVE HAZARD DATA:

FLASH POINT(Method Used) Non-Flammable  
FLAMMABLE LIMITS (LEL)-16% (UEL)-27%  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water  
spray or foam.  
SPECIAL FIRE FIGHTING PROCEDURES: If possible, move product  
from fire area. Cool fire-exposed containers with water.  
UNUSUAL FIRE & EXPLOSIVE HAZARDS: Negligible fire &  
explosive hazard. If  
ammonia is involved, it is  
flammable.



AMMONIA - HOUSEHOLD ..continued

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**SECTION #7-PRECAUTIONS FOR SAFE HANDLING AND USE**

**EYE PROTECTION:** Avoid eye contact. Wear protective safety goggles or face shield.

**SKIN PROTECTION:** Avoid prolonged skin contact. Wear protective gloves.

**RESPIRATORY PROTECTION:** Keep up wind of spill. Avoid breathing vapors. Use NIOSH approved respirator that will provide protection from ammonia gas. If ammonia vapors are 300 PPM, use self-contained breathing apparatus with full face shield.

**WASTE DISPOSAL METHOD:** Dilute with water and flush to sewer in accordance with federal, state and local environmental regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:** Do not mix with other household chemicals like bleach, toilet bowl cleaners, wall and tile cleaners.

Store in cool vented area. Keep out of direct sun-light. Avoid over heating, plastic bottle will bulge from ammonia vapor pressure.

**OTHER PRECAUTIONS:** None

**SECTION #8-CONTROL MEASURES**

**RESPIRATORY PROTECTION:** NIOSH approved respirator or breathing apparatus with face shield.

**VENTILATION - LOCAL EXHAUST:** Yes                   **SPECIAL:** N/A

**MECHANICAL:** N/A   **OTHER:** N/A

**PROTECTIVE GLOVES:** Wear protective gloves.

**EYE PROTECTION:** Wear safety goggles with face shield.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Uniforms, coveralls, labcoats.

**WORK/HYGIENIC/MAINTENANCE PRACTICES:** Provide eye bath and emergency shower. Launder work clothing when soiled.

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