

[][][] - 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

SECTION #1

MANUFACTURER

Rooto Corporation
3505 West Grand River
Howell, MI 48843

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

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	

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.	

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

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.

The information contained herein is provided in good faith, and is believed to be correct as of the date hereof, however, we make no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining the appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of, or reliance upon such information. No representations, or warranties, either express or implied of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.
..