

SEP 18 '90 09:15

Winkler Foods, Inc.
 156 South Pine Street
 Burlington, Wisconsin 53105

P. AUG 02 1993

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. To be valid, all information required by § 1910.1200(g) of the Standard must appear on this form. Consult the Standard for specific requirements. Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

IDENTITY (As Used on Label and List) SENTRY AMMONIA

Section I

Manufacturer's Name PATTERSON LABORATORIES, INC.	Emergency Telephone Number (313) 782-2234 & (313) 283-1192
Address (Number, Street, City, State, and ZIP Code) 11930 Pleasant Avenue	Telephone Number for Information (313) 843-4500
Detroit, Michigan 48217	Date Prepared March 30, 1987
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity/Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ammonia (AS NH3)	50 PPM*	25 PPM*	NIOSH	
(Ammonia Gas)			50 PPM	
HOUSEHOLD AMMONIA-FINISHED PRODUCT	N/A	N/A		

Section III — Physical/Chemical Characteristics

Boiling Point Degrees F.	191-212	Specific Gravity (H ₂ O = 1)	0.9890
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	1

Solubility in Water **Complete**

Appearance and Odor **Clear, cloudy white or colored liquid with distinct ammonia odor.**

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Non-flammable	Flammable Limits	LEL 16%	UEL 27%
Extinguishing Media	Dry chemical, carbon dioxide, water spray or foam. AS NH3 AS NH3			

Special Fire Fighting Procedures
 If possible, move product from fire area. Cool fire-exposed containers with water spray.

Unusual Fire and Explosion Hazards
 Negligible fire and explosion hazard, however, if ammonia is evolved, it is flammable.

Section V - Reactivity Data

Stability:	Unstable		Conditions to Avoid: Heat
	Stable	XX	

Incompatibility (Materials to Avoid)

Chlorine, bromine, iodine, hypochlorite, mineral acids, violent reactions may occur with incompatible materials, releasing irritating or toxic gases.

Hazardous Decomposition or Byproducts

Toxic oxides of nitrogen and ammonia gas.

Hazardous Polymerization	May Occur		Conditions to Avoid: None
	Will Not Occur	XX	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Likely	Skin? Likely	Ingestion? Unlikely
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Health Hazards (Acute and Chronic)

(ACUTE)-Based on the testing of this product in animals, it is both an eye and skin irritant (rabbit) and toxic by ingestion (rat). (CHRONIC)-Not determined on this product.

Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
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Not determined for finished product or ammonia (NH3), the hazardous component, in the product.

Signs and Symptoms of Exposure

Ammonia (AS NH3) is the hazardous ingredient in the finished product. The effects described represent the "worst case" scenario. INHALATION: Mild exposure to ammonia vapors may cause irritation of the nose, throat, coughing and sneezing. A more severe exposure may cause respiratory irritation, dyspnea, pulmonary edema. Repeated or prolonged exposure to vapors may cause, in addition to irritation, bronchitis and pneumonia. INGESTION: May cause excessive salivation, nausea, vomiting, gastric irritation with chances of perforation. Ingestion of large quantities may produce CNS depression, shock and convulsions. SKIN: Powerful irritant, may cause severe burning pain and corrosive damage. Repeated or prolonged exposure may cause dermatitis. EYES: Powerful irritant, may cause conjunctivitis, swelling of eyelids, chemical burns, transient corneal damage, repeated or prolonged exposure may cause cataracts and retinal atrophy.

Medical Conditions Generally Aggravated by Exposure

None Known

Emergency and First Aid Procedure

EYES-Immediately flush eyes with running water for at least 15 minutes. Get prompt medical attention. SKIN-Rinse well with running water. If irritation persists, contact physician or local poison control center. INHALATION-Remove victim to fresh air. Provide

symptomatic and supportive care. Contact physician or local poison control center. INGESTION-Immediately give large quantities of water or milk to dilute. Do not induce vomiting. Get prompt medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
EYE PROTECTION-Avoid eye contact. Wear protective safety goggles or face shield. SKIN PROTECTION-Avoid prolonged or repeated skin contact. Wear protective gloves. RESPIRATORY PROTECTION-Keep upwind of spill. Avoid breathing vapors. Use NIOSH approved respirator that will provide protection from ammonia gas. If ammonia vapors > 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 and Storing
Do not mix with other household chemicals, such as bleach, automatic toilet bowl cleaners, wall or tile cleaners. Store in cool, ventilated area. Keep out of direct sunlight. Avoid overheating, plastic bottle will bulge from ammonia vapor pressure.

Other Precautions None

Section VIII - Control Measures

Respiratory Protection (Specify Type)
NIOSH approved respirator or breathing apparatus with face shield.

Ventilation	Local Exhaust	XX	Special	N/A
	Mechanical (General)	N/A	Other	

Protective Gloves
Wear protective gloves

Eye Protection
Wear safety goggles or face shield

Other Protective Clothing or Equipment
Uniforms, coveralls or labcoats

Work Hygiene/Maintenance Practices
Provide eye bath and emergency shower. Launder work clothing when soiled.

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