# MATERIAL SAFETY DATA SHEET

### SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Ammonia (Clear, Sudsy, Lemon)

PRODUCT BRAND Shurfine, IGA, Big Y, Food Club, Giant Eagle, Weis, Southern Home,

Lowes, Piggly Wiggly, Price Chopper

#### **EMERGENCY TELEPHONE NUMBERS**

June 9, 2009 ISSUE DATE

**MANUFACTURER James Austin Co** STREET ADDRESS 115 Downieville Rd CITY, STATE, ZIP Mars, PA 16046

**Transportation:** 1-800-424-9300\* \* For spill, leak, fire or transport accident emergencies. Product Information: 1-724-625-1535

### SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

**HAZARDOUS EXPOSURE LIMITS** CAS No. ACGIH TLV COMPONENT OSHA PEL % by wt. NIOSH REL Ammonium hydroxide 1336-21-6 2.5 -35 ppm STEL 25 ppm TWA 25 ppm TWA 4.0 (as Ammonia) 35 ppm STEL 35 ppm STEL

## SECTION 3 -- HAZARDS IDENTIFICATION

**EMERGENCY** Can cause chemical burns. Harmful or fatal if swallowed. **OVERVIEW** Eye contact may cause severe irritation. Vapors are extremely irritating to respiratory tract. NEVER MIX WITH CHLORINE BLEACH OR OTHER CHLORINATED CHEMICALS. TO DO SO WILL RELEASE TOXIC GASES THAT CAN BE FATAL.

POTENTIAL HEALTH EFFECTS	
INGESTION	Can cause severe damage to mouth, throat and stomach, leading to abdominal pain, nausea, vomiting, collapse and possible death.
INHALATION	Damages airways and lungs. Effects include pulmonary edema, bronchitis, chemical pneumonitis and chronic respiratory disease.
EYE CONTACT	Severely irritating to the eyes. May cause permanent corneal damage, including perforation, ulceration and blindness.
SKIN CONTACT	Can cause severe skin burns with possible blistering and tissue destruction.

## **SECTION 4 -- FIRST AID MEASURES**

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. Follow with citrus juice if available. Never give anything by mouth to an unconscious person. <b>Get medical attention immediately.</b>
INHALATION	If exposed to excessive levels of vapors, remove to fresh air and give artificial respiration if not breathing. The most dangerous consequence of exposure to high levels of ammonia is pulmonary edema; for severe contact, <b>Get immediate medical attention.</b>
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. <b>Speed is essential to minimize injury. Call a physician immediately.</b>
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland.  See listing for Ammonia in Therapeutics Index, Section III.

## SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE	Lower:16%; Upper:25% Decomposes at 928 F.			
		LIMITS	Decomposes at 926 F.			
EXTINGUISHING MEDIA	If involved in a fire, use carbon dioxide, dry chemical or water spray.					
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool. Use water fog or spray to remove generated ammonia gas from the atmosphere.					
FIRE AND EXPLOSION HAZARDS	Ammonia gas will be liberated confined space conditions. Cacids will cause instant boiling	contact between this product a				

# **SECTION 6 -- ACCIDENTAL RELEASE MEASURES**

RESPONSE
TO SPILLS

Small spills: Mop up residue and rinse area thoroughly with water.

Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent.

Use personal protective equipment and stay upwind of spill.

# **SECTION 7 -- HANDLING AND STORAGE**

HANDLING PRECAUTIONS	Product is a strongly alkaline material; handle with care, as for all strong chemicals.  Keep container tightly closed when not in use. Handle empty containers as if full, due to presence of residual ammonia vapors. Wash thoroughly after handling.  NEVER MIX WITH CHLORINE BLEACH OR OTHER CHLORINATED CHEMICALS. TO DO SO WILL RELEASE TOXIC GASES THAT CAN BE FATAL.
STORAGE PRECAUTIONS	Store in a cool, dry, well-ventilated place. Keep away from bleach and acidic materials. Keep from freezing.

## **SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION**

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. <b>Avoid breathing vapors of this product.</b>
ENGINEERING CONTROLS	Local exhaust ventilation may be required to keep vapors within exposure limits.  Facilities using this product must be equipped with an eyewash station.

#### PERSONAL PROTECTIVE EQUIPMENT

Χ	RESPIRATOR	Use NIOSH approved respirator if exposure exceeds PEL or TLV limits.
Χ	GOGGLES / FACE SHIELD	Chemical splash goggles required; also use face shield if exposure is severe
Χ	APRON	Recommended; PVC, Neoprene or Vinyl acceptable
Χ	GLOVES	Recommended; use impervious PVC or Neoprene with long gauntlet
Χ	BOOTS	Recommended to protect shoes and feet when using product for floor cleaning

## SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear colorless liquid	BOILING POINT	~ 212 deg F
ODOR	Pungent ammonia	FREEZING POINT	32 deg F
pH	11.5 (100% concentrate)	VAPOR PRESSURE	Not established
SPECIFIC GRAVITY	0.980	VAPOR DENSITY	Not established
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Not determined

# SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	Χ		UNSTABLE			
CONDITIONS TO AVOID	The state of the s	NEVER MIX with hot water or chlorine bleach. Avoid contact with acids or						
	alkalies, oxidizin	g materials, coppe	er, alur	minum, zinc a	and galvanized m	etals.		
INCOMPATIBILITY		ong acids produce				n.		
	Contact with stro	Contact with strong alkalies promotes the evolution of ammonia gas.						
HAZARDOUS PRODUCTS		Ammonia gas and oxides of nitrogen.						
OF DECOMPOSITION	Chloramines f	Chloramines from contact with hypochlorite bleach.						
POLYMERIZATION		WILL NOT OCC	UR	X	MAY OCCUR			
CONDITIONS TO AVOID	Not applicable							

# **SECTION 11 -- TOXICOLOGICAL INFORMATION**

#### CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
Χ	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO
	THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

### OTHER EFFECTS

ACUTE	Strongly irritating to all tissues on exposure.
CHRONIC	Not determined

## SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY		CONSIDERED BIODEGRADABLE	Х	NOT BIODEGRADABLE	
BOD / COD VALUE	Not es	stablished			
ECOTOXICITY	No da	ta available			

### SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	water. Cor	Small amounts of unused product may be flushed safely to the sanitary sewer with plenty of water. Contact local water board before flushing large amounts. If solidified, large amounts may be disposed of in a sanitary landfill. Contact state or local authorities for additional restrictions.						
RCRA CLASSIFICATION	Non-haza	ardous						
RECYCLE CONTAINER		YES	Χ		CODE	2 - HDPE	NO	

## **SECTION 14 -- TRANSPORT INFORMATION**

DOT CLASSIFICATION	HA	AZARDOUS			NOT HAZARDOUS	Х
DESCRIPTION	Not applicable					
HM CODE	None					

## **SECTION 15 -- REGULATORY INFORMATION**

#### **REGULATORY STATUS**

	EPA REGISTERED (UNDER FIFRA)	
	FDA REGULATED	
	KOSHER	
Х	SARA TITLE III MATERIAL	Section 304
	USDA AUTHORIZED	

# SECTION 16 -- OTHER INFORMATION

#### NFPA CLASSIFICATION

1	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by James Austin Company in connection with the use of this information.