



MATERIAL SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION *****

NAME: AMMONIA GLASS CLEANER
 USE: SPECIALTY (GLASS CLEANER)
 LABEL ID: RENOWN
 MSDS # 3719547 CODE # REN02804, REN02812

MEDICAL EMERGENCY #: 1-800-851-7145 EXT. 075 USA (24/7)
 SPILL EMERGENCY #: 1-800-255-3924 USA (24/7)
 PRODUCT INFORMATION #: 1-888-468-1555
 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)
 INTERNET ADDRESS: www.amsan.com
 REVIEWED 10-23-06 REVISED 10-23-06 SECTION REVISED: 1

DISTRIBUTED EXCLUSIVELY BY:
 AMSAN
 THREE PARKWAY NORTH
 SUITE 120 NORTH
 DEERFIELD, IL 60015

Section 2. HAZARDS IDENTIFICATION *****

EMERGENCY OVERVIEW: CAUTION! COMBUSTIBLE LIQUID. MAY BE IRRITATING TO EYES AND SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYES, SKIN, INGESTION, INHALATION.

POTENTIAL ACUTE HEALTH EFFECTS

EYES: MAY BE SEVERELY IRRITATING TO EYES.

SKIN: MAY BE MODERATELY IRRITATING TO SKIN.

INHALATION: MAY BE IRRITATING TO NOSE, THROAT AND RESPIRATORY TRACT.

INGESTION: MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED: PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS *****

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
ISOPROPYL ALCOHOL	67-63-0	1.0 – 5.0	N.A.V.
2-BUTOXYETHANOL	111-76-2	3.0 – 7.0	N.A.V.
AMMONIUM HYDROXIDE	1336-21-6	BELOW 1.0 AS NH3	N.A.V.

STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS:
 WATER/7732-18-5, BUTYL CELLOSOLVE/111-76-2, ISOPROPYL ALCOHOL/67-63-0,
 AMMONIUM HYDROXIDE/1336-21-6

Section 4. FIRST AID MEASURES ***** Page 2 of 4

EYES: FLOOD WITH LUKEWARM (NOT HOT) WATER POURED FROM A LARGE GLASS 2 OR 3 INCHES FROM EYES. REMOVE CONTACTS. HAVE PATIENT BLINK AS MUCH AS POSSIBLE WHILE FLOODING THE EYES. CONTINUE FOR AT LEAST 15 MINUTES.

SKIN: REMOVE CONTAMINATED CLOTHES, THEN FLOOD WITH WATER.

INHALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF PATIENT IS NOT BREATHING.

INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-851-7145 EXT. 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN: CALL 1-800-851-7145 EXT. 075 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

Section 5. FIRE-FIGHTING MEASURES *****

FLAMMABILITY: COMBUSTIBLE

FLASH POINT: 135°F TCC

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: FOR FIRES IN AREA, USE APPROPRIATE MEDIA. USE DRY CHEMICAL OR ALCOHOL FOAM.

SPECIFIC HAZARDS: A VAPOR ACCUMULATION MAY FLASH IF IGNITED.

SPECIFIC METHODS: SOLVENT FIRE-FIGHTING PROCEDURES MAY BE USED.

Section 6. ACCIDENTAL RELEASE MEASURES *****

PERSONAL PRECAUTIONS: SEE SECTION 8. PUT ON APPROPRIATE PPE.

SPILL RESPONSE: ELIMINATE ALL IGNITION SOURCES. EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. BE CAREFUL AS SPILLS ARE SLIPPERY.

Section 7. HANDLING AND STORAGE *****

HANDLING: FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. USE IN WELL-VENTILATED AREAS. AVOID BREATHING VAPORS OR MISTS. AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW. REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F. KEEP AWAY FROM HEAT, SPARK AND FLAME. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION *** Page 3 of 4

EXPOSURE LIMITS: ISOPROPYL ALCOHOL = 400 PPM TWA, 500 PPM STEL (OSHA PEL / ACGIH TLV).
2-BUTOXYETHANOL = 20 PPM TWA (ACGIH), 50 PPM TWA-SKIN (OSHA).
AMMONIUM HYDROXIDE = 25 PPM TWA (ACGIH), 50 PPM TWA (OSHA), 35 PPM STEL AS NH3 (ACGIH)
ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION
EYES: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED IF SPRAYING.
HANDS: FOR PROLONGED OR REPEATED CONTACT WITH SKIN: RUBBER GLOVES.
RESPIRATORY: N.AP.
FEET: N.AP.
BODY: N.AP.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES *****

COLOR: BLUE
ODOR : AMMONIA
pH CONCENTRATE: 10.0
pH @ 2500 PPM SOLUTION: N.AP.
pH @ USE DILUTION: N.AP.
PHYSICAL STATE: LIQUID
SPECIFIC GRAVITY: 1.000
VISCOSITY: NON-VISCOUS
BOILING POINT: N.AP.
MELTING POINT: N.AP.
FLASH POINT: 135°F TCC
UEL: N.AV.
LEL: N.AV.
EVAPORATION RATE: N.AP.
ODOR THRESHOLD: N.AP
VAPOR PRESSURE: N.AP
VAPOR DENSITY: N. AP.
COEFF. OIL/WATER: N.AP.
WATER SOLUBILITY: COMPLETE
OTHER: N.AP.

Section 10. STABILITY AND REACTIVITY *****

STABLE: YES
CONDITIONS TO AVOID: AVOID TEMPERATURES BELOW 35°F.
AVOID HEAT, SPARKS AND FLAME.
MATERIALS TO AVOID: AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING
PRODUCT. AVOID OXIDIZING AGENTS. MIX ONLY WITH WATER.
DECOMPOSITION PRODUCTS: FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY
PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.
POSSIBILITY OF HAZARDOUS REACTIONS: N.AP.

Section 11. TOXICOLOGICAL INFORMATION *****

ACUTE EFFECTS: SEE SECTION 2.
CHRONIC EFFECTS: NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS,
SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.
LC50/LD50: N.AV.
TARGET ORGANS: EYES, SKIN, RESPIRATORY SYSTEM.
OTHER TOXIC EFFECTS: NONE KNOWN.

Section 12. ECOLOGICAL INFORMATION ***** Page 4 of 4

NOT AVAILABLE.

Section 13. DISPOSAL CONSIDERATIONS*****

DISPOSAL METHOD: UNDILUTED PRODUCT WITH FLASH POINT BELOW 140 F IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS AN IGNITABLE WASTE (RCRA CLASS D001). COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

Section 14. TRANSPORT INFORMATION*****

DOT/TDG: NOT REGULATED (COMBUSTIBLE EXCEPTION).
DOT RQ: N.AP.
IMDG:
FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL, 2-BUTOXYETHANOL) 3, UN1993, III, (57°C (CC))

Section 15. REGULATORY INFORMATION*****

EPA CERCLA RQ: N.AP.
EPA REGISTERED: NO
EPA %VOC: 6.2
EPA VOC RULE: PRODUCT COMPLIES WITH THE EPA VOC EMISSIONS STANDARD.
OSHA HAZARDOUS: YES
PHOSPHORUS CONTENT: SEE LABEL
PROPOSITION 65: N.AP.
SARA 311/312 HAZARDS: ACUTE, FIRE
SARA 313 CHEMICALS: 2-BUTOXYETHANOL
STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

Section 16. OTHER INFORMATION*****

NFPA RATING: HEALTH-2/FLAMMABILITY-2/REACTIVITY-0/SPECIAL HAZARD-N.AP.
HMIS RATING: HEALTH-2/FLAMMABILITY-2/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.A.V. = NOT AVAILABLE N.AP. = NOT APPLICABLE PREPARED BY: HEALTH AND SAFETY

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