

MATERIAL SAFETY DATA SHEET

PRODUCT Collar Solution



Division of Adco

HMIS HAZARD RATINGS:

Health 1
Flammability 1
Physical hazards 0

SECTION 1: PRODUCT INFORMATION

Manufacturer: Adco Cleaning Products LLC, 900 W. Main, Sedalia, MO 65301 (660) 826-3300
EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 24 HRS 7 DAYS A WEEK; ADCO (800) 821-7556 (8-5 M-F)
Intended Product Use: Spot & stain remover
Synonyms: None

SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name	%	CAS #	OSHA PEL	LD 50
Ammonium hydroxide (aqua ammonia)	<1	1336-21-6	50 ppm TWA	oral:350 mg/kg (rat)

SECTION 3: PHYSICAL DATA

Appearance: Very slight yellow
Odor: Citrus/slight ammonia
Specific Gravity (20° C): 1.003
pH (5% aqueous soln.): 9.0-9.5
Boiling Point: No data
Solubility in Water: Miscible
Vapor Pressure (mm Hg): No data
Vapor Density: No data

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method)(°F): >230 (TCC)
Upper Flammable Limit: 28% ammonia
Lower Flammable Limit: 15% ammonia
Extinguishing Media: Compatible with all types of fire extinguishers
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION 5: REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Heat, sunlight, incompatibles, sources of ignition
Incompatibility (materials to avoid): Heavy metals, acids, halogens, salts, copper, and aluminum
Hazardous Decomposition Products: Ammonia on heating, carbon dioxide, carbon monoxid
Hazardous Polymerization: Will not occur

SECTION 6: HEALTH HAZARD DATA

Toxicity (Estimated): Slight
Effects of Overexposure:
Acute: May be irritating to nose, throat, lungs, and eyes. Skin irritation on prolonged contact.
Chronic: None known.
Carcinogenicity: None of the ingredients of this mixture have been identified as a carcinogen or probable carcinogen by ACGIH, IARC, or OSHA.

*Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

EXPOSURE LIMITS 50 ppm TWA (ammonium hydroxide)	IRRITANCY OF PRODUCT Moderate eye, skin, and mucous membrane	SENSITIZATION TO PRODUCT None reported	CARCINOGENICITY No components are listed by ACGIH, IARC, or OSHA
TERATOGENICITY No effects reported	REPRODUCTIVE TOXICITY No effects reported	MUTAGENICITY None reported	SYNERGISTIC PRODUCTS None reported

Based on known toxicity of components. No test data available on mixture.

SECTION 7: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation. When cleaning up large spills in confined areas, self-contained breathing apparatus is recommended.

Ventilation: Normal industrial ventilation is adequate.
Local exhaust at work station recommended.

Protective Gloves: Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent.

Eye Protection: Use goggles or face mask if splashing is likely.

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

STORAGE AND HANDLING: Store in containers at temperatures below 122°F. Do not use or store in aluminum or brass containers.
Keep away from heavy metals (silver, lead, zinc) or their salts.

SPILL OR LEAK PROCEDURES: Small spills - flush to sewer with water. Large spills - soak up on absorbent material and transfer to containers for disposal as nonhazardous waste.

WASTE DISPOSAL METHOD: Dispose of material and container in municipal landfill in compliance with all local, state, and federal regulations.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

Avoid contact with skin and eyes. Avoid breathing vapors.

FIRST AID:

Remove person overcome by vapors to fresh air. Flush eyes for 15 minutes with water. Wash off of skin with soap and water. If swallowed, give juice, water, or milk to reduce irritation. Do NOT induce vomiting.

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

This product is intended for professional use only by trained personnel.

SECTION 8: FIRST AID

Inhalation: Remove victim to fresh air.

Eyes: Flush eyes for 15 minutes with water.

Skin: Wash off of skin with soap and water.

Ingestion: If swallowed, DO NOT induce vomiting.

IF SYMPTOMS PERSIST, SEEK MEDICAL ASSISTANCE

SECTION 9: SARA TITLE III

NOTE: This product does contain some components which are under the reporting requirements of SARA Title III, Section 313. If you are required to report discharges using Form R, SARA Title III, Section 313, information is available on amounts of reportable components.

SECTION 10: PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or completeness is expressed or implied.

ADCO RESEARCH DEPARTMENT

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