



Material Safety Data Sheet

MSDS DATE: 5/14/11 - SUPERSEDES: 4/4/11

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELITE VIGOR
DISTRIBUTOR: Red River Specialties, Inc.
ADDRESS: 7545 Haygood Road, Shreveport, LA 71137-7241
CHEMTREC PHONE: US: 1-800-424-9300 International: 1-202-483-7616
CHEMICAL NAME: Proprietary mixture
CHEMICAL FAMILY: Blend
CHEMICAL FORMULA: Mixture
PRODUCT USE: Tank Cleaner
SECTION 1 NOTES: None

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	% WT	SARA 313 REPORTABLE	OSHA		ACGIH	
				TWA	STEL Ceiling	TWA	STEL Ceiling
Ammonia	7664-41-7	1.5 - 3	See section 15	50 mg/M3 *		35 mg/M3 **	

Compositional information reflects actual ammonia concentration as calculated from ammonium hydroxide concentration. Ammonia is on the Hazardous Substance List and is regulated by OSHA and cited by ACGIH, DOT, NIOSH, NFPA, and EPA.
* 50-ppm legal airborne permissible exposure limit (PEL) as averaged over an 8-hour work shift.
** 35-ppm as recommended airborne short-term exposure limit (STEL).

SECTION 2 NOTES: None

SECTION 3: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: Eyes, skin, ingestion, inhalation

POTENTIAL HEALTH EFFECTS

EYES: Eye contact with product will cause severe burns and irritation, and has the potential to cause permanent damage. Avoid eye contact with product at all times.
SKIN: Effects of skin contact may include burns and irritation. Avoid prolonged and unnecessary skin contact with product.
INGESTION: May cause burning pain in mouth, throat and abdomen and coughing and constriction of the throat, followed by nausea, vomiting, and diarrhea. Do not taste or swallow product.
INHALATION: May cause respiratory tract irritation, coughing, difficulty in breathing and pulmonary edema. Severe exposure may cause swelling of the mouth and throat to the point which prevents breathing. May also damage heart, liver, and kidney.

ACUTE HEALTH HAZARDS: NA

CHRONIC HEALTH HAZARDS: NA

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA

CARCINOGENICITY

OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SECTION 3 NOTES: None

SECTION 4: FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Have the product container with you when calling a poison control center or doctor, or going for treatment.
If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
If Swallowed: Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES: None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)
UPPER: NA
LOWER: NA

FLASH POINT: F: >200
C: >93

METHOD USED: PMCC

AUTOIGNITION TEMPERATURE: F: NA
C: NA

NFPA HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER: -

HMS HAZARD CLASSIFICATION

HEALTH: NA FLAMMABILITY: NA REACTIVITY: NA PROTECTION: NA

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide, and foam. Use water spray to keep fire-exposed containers cool.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter enclosed or confined workspaces without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may produce carbon monoxide and other asphyxiates.

SECTION 5 NOTES: None



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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

ACTION: Restrict persons not wearing protective equipment from areas of spills or leaks until cleanup is complete. Remove all ignition sources and ventilate area of spill or leak.

LARGE SPILL: Prevent spill from entering streams, sewers, and waterways. Use dikes to contain spill. Flush spill area with water spray. Shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations.

SMALL SPILL: Contain spilled liquid and shovel, sweep, or vacuum spill and place in closed container for disposal according to local, state, and federal regulations.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store this product in a cool, isolated, well-ventilated area. Do not store near strong oxidizing materials, acids, chlorine, bromine, gold, mercury, silver, cadmium, and hypochlorite bleaches. Protect product from freezing. Keep container tightly closed when handling or storing. Exercise exposure controls and always wear personal protection. See section 8. Wash thoroughly after handling.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

RESPIRATORY PROTECTION: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. The use of NIOSH or MSHA approved equipment is recommended when airborne exposure levels are concentrated or cause irritation. Use an ammonia vapor cartridge or canister. The improper use of respirators is dangerous. Be certain that any such equipment used follows a written program that takes into account workplace conditions, requirements for worker training; respirator fit testing and medical exams. If while wearing a filter, cartridge or canister respirator, you can smell, taste, or otherwise detect ammonia, or experience eye irritation, leave the area immediately. Check the respirator for integrity.

EYE PROTECTION: Unless full facepiece respiratory protection is worn, wear splash-proof chemical goggles and faceshield or airtight gasproof goggles.

SKIN PROTECTION: Neoprene rubber or other chemical resistant material such as nitrile or viton may be used. Wear gloves, boots, and protective clothing as appropriate for the risk of exposure. Contact glove manufacturer for specific information.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NA

WORK HYGIENIC PRACTICES: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

EXPOSURE GUIDELINES: NA

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue, clear

ODOR: Strong Ammonia Odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: ~ 10.5

pH (Other):

BOILING POINT: F: Unknown

C: Unknown

MELTING POINT: F: Unknown

C: Unknown

FREEZING POINT: F: Unknown

C: Unknown

VAPOR PRESSURE (mmHg): Unknown

@ F:

C:

VAPOR DENSITY (AIR = 1): Unknown

@ F:

C:

SPECIFIC GRAVITY (H2O = 1): 1.01

@ F: 68

C: 20

EVAPORATION RATE: Unknown

BASIS (butyl acetate=1):

SOLUBILITY IN WATER: Soluble

VISCOSITY: Unknown

@ F:

C:

SECTION 9 NOTES: None



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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Stable under normal conditions.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizing agents - reactions can occur.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Incomplete combustion may produce carbon monoxide and other asphyxiates.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not available

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: NA

RCRA HAZARD CLASS: NA

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Liquid Cleaning Compound, Ammoniated 50060

HAZARD CLASS: 55

ID NUMBER: NA

PACKING GROUP: NA

LABEL STATEMENT: NA

OTHER AGENCIES: NA

SECTION 14 NOTES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>	<u>RQ</u>
Residual ethylene oxide (typical)	75-21-8	<0.001	10

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>	<u>TPQ</u>	<u>RQ</u>
Residual ethylene oxide (typical)	75-21-8	<0.001	Below reportable concentrations	

311/312 HAZARD CATEGORIES: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

313 REPORTABLE INGREDIENTS:

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Concentration</u>
	Aqueous Ammonia	<20*

SECTION 15 NOTES: See SARA 313 regulations for reporting of aqueous ammonia

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared on 4/7/11

DISCLAIMER: The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

Red River Specialties, Inc.

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