

X- Tender

Material Safety Data Sheet (rev.01/05)

SECTION I PRODUCT IDENTIFICATION

	NFPA HAZARD RATINGS
	HEALTH HAZARD 0 FIRE HAZARD 0 REACTIVITY 0
	SARA/ TITLE III HAZARD CATEGORIES (See Section X)
	Immediate (ACUTE) Health: YES Reactive Hazard: NO
	Delayed (Chronic) Health: NO Fire Hazard: NO Sudden Release of Pressure: NO
Company Name:	STOLLER USA, INC.
Address:	4001 West Sam Houston Pkwy N. Houston, Texas 77043
Emergency Phone Number:	CHEMTREC: In the U.S. and Canada, call toll-free: 1 (800) 424-9300 From all other countries, call collect: 1 (703) 527-3887
Phone Number for Information:	1 (713) 461-1493
Chemical Family:	Inorganic Salt Solution
Chemical Name & Synonyms:	Calcium muriate solution
Formula:	Proprietary
Trade name & Synonyms:	X- TENDER

SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS

INGREDIENTS:	CAS#	Approx. %	TLV
Citric Acid	77-92-9	>10%	

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT:	230-251° F, 110-122° C	VAPOR PRESSURE (mm/ Hg):	
MELTING POINT:		VAPOR DENSITY (air = 1):	Similar to H ₂ O
SPECIFIC GRAVITY:	1.35 – 1.40 @ 25° C, 77° F	REACTIVITY IN WATER:	
SOLUBILITY IN WATER:	Totally soluble	EVAPORATION RATE:	<1
APPEARANCE AND ODOR:	Slightly amber colored liquid, vanilla like odor.		

SECTION IV FIRE AND EXPLOSION DATA

FLASH POINT:	N/ A		
FLAMMABLE LIMITS:	N/ A	LEL: N/ A	UEL: N/ A
EXTINGUISHER MEDIA:	Use all means to fight surrounding fire: water, CO ₂ , or dry chemicals.		
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self- contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Toxic fumes may be generated at elevated temperatures.		

SECTION V**PHYSICAL HAZARDS (REACTIVITY DATA)**

STABILITY:	Stable: Yes Unstable:
INCOMPATIBILITY, MATERIALS TO AVOID:	Avoid mixing with metals such as brass, mild steel, aluminum, zinc, sodium or ferrous ones. Avoid also strong acids, oxidizing agents and phosphoric products.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
MAY OCCUR:	WILL NOT OCCUR: X

SECTION VI**HEALTH HAZARDS**

- A. EXPOSURE LIMITS:**
1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED
 2. Threshold Limit Value (TLV): NOT ESTABLISHED
- B. CARCINOGEN OR POTENTIAL CARCINOGEN:**
1. NPT: NO
 2. IARC: NO
 3. OSHA: NO
- C. EFFECTS OF OVEREXPOSURE:**
- D. EMERGENCY FIRST AID PROCEDURES:**
- EYES:** May irritate eyes. **IMMEDIATELY** flush with a directed stream of water for at least 15 minutes forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. **GET MEDICAL ATTENTION IF IRRITATION OCCURS.**
- SKIN:** May be irritant to skin. Wash thoroughly with soap and water. Wash clothing before reuse. **IF IRRITATION OCCURS, GET MEDICAL ATTENTION.**
- INHALATION:** If symptoms develop, get people out of contaminated area to fresh air.
- INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Have patient drink several glasses of water then induce vomiting by having patient tickle back of throat with finger. Keep airways clear. Get medical attention immediately.
- E. ANIMAL TOXICITY DATA:**
- Oral LD₅₀ (rat): 900-2100 mg/ kg
Dermal LD₅₀ (rabbit): >5000 mg

SECTION VII**SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

HANDLING AND STORAGE: Keep containers closed and dry. Wash hands thoroughly after using. Normal warehouse storage for drums is satisfactory. For bulk storage, use tanks made of carbon steel or stainless steel. Avoid aluminum, copper or brass in tanks, lines, or pumps. Product will freeze below 32° F.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED: Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste.

WASTE DISPOSAL METHODS: Dispose in compliance with all federal, state and local laws concerning health and environment.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

RESPIRATORY PROTECTION: As required by conditions. Use and OSHA or NIOSH approved respirator if required.

VENTILATION: General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

SECTION IX**ENVIRONMENTAL EFFECTS DATA**

This product has not been tested for environmental effects. The available data on the raw materials does not indicate an undue hazard to the environment under anticipated conditions of storage and use. If discharged into the marine environment it may be considered non-toxic to fish or other marine organisms, but due to its nutrient value may contribute to eutrophication in bodies of water.

SECTION X**TRANSPORTATION DATA**

PROPER SHIPPING NAME: X- TENDER

DOT HAZARD CLASS: NON- REGULATED MATERIAL

PLACARD: N/ A

Stoller Enterprises, Inc., believes the information contained in this Material Safety Data Sheet is accurate, based on the information supplied by reputable suppliers of our raw materials. The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.