



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	QUAT-X 400	MANUFACTURER	Clean Mart, LLC.
PRODUCT CODE	C475	STREET ADDRESS	445 TX-36
ISSUE DATE	05-21-12	CITY, STATE ZIP	Rosenberg, TX 77471
SUPERCEDES	08-24-11	PHONE	(800) 829-3020
EPA REG. NO.	10324-57-87676	EMERGENCY TELEPHONE NUMBER	1-800-535-5053
PRODUCT CLASS	Quaternary Ammonium Compound		

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	OSHA PEL/TLV	EXPOSURE LIMITS			WT. %
			ACGIH TLV	STEL		
Alkyl dimethyl benzyl ammonium chloride (C ₁₂₋₁₈)	68391-01-05	NE	NE	NE	NE	1.0 – 3.0 %
Alkyl dimethyl ethylbenzyl ammonium chloride (C ₁₂₋₁₄)	85409-23-0	NE	NE	NE	NE	1.0 – 3.0 %
Ethanol	64-17-5	1000 ppm	1000 ppm	1250 ppm		< 0.5 %

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Clear, colorless to straw colored liquid. Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.
---------------------------	--

POTENTIAL HEALTH EFFECTS	
INGESTION	Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.
INHALATION	Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.
EYE CONTACT	Causes burns and may result in permanent injury to eyes including blindness.
SKIN CONTACT	Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through the skin.
CHRONIC	Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

SECTION 4 – FIRST AID MEASURES

INGESTION	Call a poison control center or doctor immediately for treatment advice. 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.
INHALATION	If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
EYE CONTACT	Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.
SKIN CONTACT	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN	Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None when heated to 105°C – Tag Closed Cup	FLAMMABLE LIMITS	Not Determined
% VOLATILE	Not Determined		
EXTINGUISHING MEDIA	Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.		
HAZARDOUS COMBUSTION PRODUCTS	Irritating and toxic gases or fumes may be released during a fire.		
FIRE AND EXPLOSION HAZARDS	Combustion products are toxic.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	
Emergency Action.....	Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
Spill Cleanup.....	Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Large Spills.....	Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.

SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS	Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.
STORAGE PRECAUTIONS	Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.
RESPIRATOR	If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSHA approved respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.
GENERAL	Eye wash fountain and emergency showers are recommended.
X GOGGLES / FACE SHIELD	Wear chemical goggles. Use a face shield if splashing is possible.
APRON	Not required
X GLOVES	Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.
BOOTS	Not required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear, yellow liquid	BOILING POINT	Not Determined
ODOR	Lemon lime odor	VAPOR PRESSURE	Not Determined
PH	11 – 14	VAPOR DENSITY	Estimated to be heavier than air.
SPECIFIC GRAVITY	1.147 (9.58 lbs/gal)	EVAPORATION RATE	Not Determined
SOLUBILITY IN WATER	Not Determined	VISCOSITY	23.56 mm ² /s (cSt) @ 22°C
VOC CONTENT	Not Determined	POUR POINT	Not Determined

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Keep away from heat and strong oxidizing agents.					
INCOMPATIBILITY	Strong oxidizing agents (may result in fire.), reducing agents.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Carbon monoxide, carbon dioxide, and toxic hydrogen chloride vapors.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	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 DERMAL LD/50	> 2000 mg/kg (rabbit)
CHRONIC	NA
ACUTE ORAL LD/50	> 2000 mg/kg (rat)

SECTION 12 – DISPOSAL CONSIDERATIONS**WASTE DISPOSAL**

Although not considered a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DESCRIPTION	Not Regulated					

SECTION 14 – OTHER INFORMATION**HMIS CLASSIFICATION**

3	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
Alk	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 in connection with the use of this information.