

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: QUAT AMO
HMIS CODES: H F R P

PRODUCT CODE: F01023
2 1 0 B

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: HADCO DENVER CHEMICAL COMPANY
ADDRESS: 1339 W. CEDAR AVENUE
DENVER, CO 80223-1729

EMERGENCY PHONE: (800)535-5053 DATE PRINTED: 01/17/01
INFORMATION PHONE: (303)778-1805 NAME OF PREPARER: HAS

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER
DI-N-ALKYL DIMETHYL AMMONIUM CHLORIDE OSHA PEL: Not Est., ACGIH TLV: Not Est.	68424-95-344.0000068.000005
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE OSHA PEL: N/A, ACGIH TLV: N/A	68424-85-144.0000068.000005
ETHYL ALCOHOL OSHA PEL: 1000ppm, ACGIH TLV: 1000ppm, OTHER: TWA1900mgM	64-17-548.0000068.000000

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***
N/A

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 212 EVAPORATION RATE: Slower than ether
SPECIFIC GRAVITY (H2O=1): 0.99 SOLUBILITY IN WATER: Soluble
VAPOR DENSITY: Unknown
APPEARANCE AND ODOR: Colorless to pale yellow liquid

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: Non-flammable METHOD USED: n/a
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a
EXTINGUISHING MEDIA: alcohol foam, co2, dry chemical, water fog
SPECIAL FIREFIGHTING PROCEDURES: Must wear MSHA/NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back. Explosive mixtures can form with air.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIALS TO AVOID): Anionic surfactants, bleach.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide, carbon dioxide, ammonia, nitrous oxides, hydrogen chloride may form upon thermal decomposition.

HAZARDOUS POLYMERIZATION: Will occur

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Solvent vapors or mists of product can cause irritation to mucous membranes.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Eye contact: Direct contact with undiluted concentrate can cause severe eye damage.
CORROSIVE.

Skin contact: Direct contact with undiluted concentrate can irritate skin.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Not absorbed through skin.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Immediate burning pain in the mouth, throat, abdomen and severe swelling of the larynx, skeletal muscle paralysis, affecting the ability to breathe, circulatory shock, convulsions; may be fatal.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Inhalation: Solvent vapors or mists can cause irritation to mucous membranes.

Eye contact: Direct contact with undiluted concentrate can cause severe eye damage.
CORROSIVE.

Skin contact: Direct contact with undiluted concentrate can cause severe irritation.

Ingestion of concentrate: pain in mouth, throat, abdomen, severe swelling of larynx, muscle paralysis, shock, convulsion.

CARCINOGENICITY:

NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
Not listed as a carcinogen by NTP, IARC, or OSHA.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Flush eyes with large amounts of running water for at least 15 minutes. Hold

eyelids apart, rinse entire eye, get immediate medical attention.

Skin: Immediately wipe away material with dry cloth while removing contaminated clothing and shoes. Use safety shower for 15 minutes, rinsing thoroughly. Get immediate medical attn.

Ingestion: Immediately give 3-4 glasses of milk. DO NOT INDUCE VOMITING. Do not give anything by mouth to convulsing or unconscious person. Get immediate medical attention.

Inhalation: remove to fresh air. If not breathing, start artificial respiration; get medical attn.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb spilled material on floor cleaning compounds or sawdust; dispose of this solid waste to conform with all Federal, State and Local regulations.

WASTE DISPOSAL METHOD:

Pesticide Disposal: Pesticide, spray mixture of rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

Container Disposal: Triple rinse and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Maximum storage temperature: 140 degrees F. Store containers tightly closed away from children. Do not contaminate food in use or in storage.

OTHER PRECAUTIONS:

NOTE TO PHYSICIAN: Upon ingestion, probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

===== SECTION VIII CONTROL MEASURES =====

RESPIRATORY PROTECTION:

In the presence of mist, wear NIOSH approved respirator for mist.

VENTILATION:

Where product may be aerosolized or vaporized, use local exhaust ventilation.

PROTECTIVE GLOVES: Rubber or neoprene.

EYE PROTECTION: Wear goggles or face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK/HYGIENIC PRACTICES: Wash after using.

===== SECTION IX DISCLAIMER =====

All information given is believed to be accurate but is presented without guarantee, warranty, or responsibility of any kind, express or implied, on our part.