

MATERIAL SAFETY DATA SHEET

Date: 5/10/1999

PRODUCT NUMBER: 21472

PRODUCT NAME: AQUFACT™

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EMERGENCY INFORMATION
MEDICAL: 1-800-228-5635
CHEMTREC: 1-800-424-9300

SECTION I: GENERAL INFORMATION

PRODUCT NUMBER: 223486

PRODUCT NAME: AQUFACT™

PRODUCT CLASS: NONIONIC SURFACTANT BLEND

PRECAUTIONS: CAUSES IRRITATION

REFER TO BILL OF LADING OR CONTAINER LABEL FOR DOT OR OTHER TRANSPORTATION HAZARD CLASSIFICATION, IF ANY.

CHEMICAL DESCRIPTION: Ethoxylated fatty amines, ethoxylated fatty alcohols and polyethylene glycols 90% ; Ingredients ineffective as adjuvants 10%

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT (CAS #) OSHA PEL

ACGIH TLV
(PPM)

OTHER
(PPM)

NO INGREDIENTS IDENTIFIED BY OSHA AS HAZARDOUS ARE KNOWN TO BE PRESENT, OR THE INGREDIENTS PRESENT ARE BELOW LEVELS SPECIFIED AS HAZARDOUS BY OSHA (29 CFR 1910.1200)

SECTION III: PHYSICAL/CHEMICAL DATA

BOILING POINT: OVER 201 DEG F. (94 DEG C)

% VOLATILE BY WEIGHT: 17%

EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER.

VAPOR DENSITY: ESTIMATED LIGHTER THAN AIR

VAPOR PRESSURE (MM HG): NOT DETERMINED OR UNKNOWN

WEIGHT PER GALLON: 9.0 LBS.

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (PENSKEY-MARTENS CLOSED CUP): OVER 201 DEG F. (94 DEG C.)

EXPLOSIVE LIMITS: LOWER/ NOT DETERMINED UPPER/ NOT DETERMINED

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, and FOAM, OR WATER FOG. CLASS BC, ABC
FIRE EXTINGUISHER.

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CEMICALS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN

SECTION V: REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATABILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: NITROUS OXIDES AND AMMONICAL VAPORS.

SECTION VI: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE/EMERGENCY AND FIRST AID PROCEDURES:

EYES: CONTACT WITH EYES IS PAINFUL AND IRRITATING. FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SKIN: PROLONGED OR REPEATED CONTACT WITH SKIN CAUSES IRRITATION. WASH OFF SKIN WITH WATER. REMOVE CONTAMINATED CLOTHING AND CLEAN BEFORE REUSE.

INHALATION: MIST CAUSED BY MANUFACTURING OPERATIONS IRRITATES NASAL PASSAGES. IF VAPORS OR MIST CAUSE IRRITATION OR DISTRESS, REMOVE TO FRESH AIR. GIVE OXYGEN OR APPLY ARTIFICIAL RESPIRATION, IF NEEDED.

SECTION VI: HEALTH HAZARD DATA (Continued)

INGESTION: IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: OVER EXPOSURE TO THE PRODUCT HAVE NOT BEEN ESTABLISHED. UNNECESSARY EXPOSURE TO THIS PRODUCT OR ANY CHEMICAL SHOULD BE AVOIDED.

IF ANY SYMPTOMS PERSIST, CONSULT A PHYSICIAN.

CARCINOGEN: OSHA, NTP, OR IARC DOES NOT CONSIDER THIS PRODUCT A CARCINOGEN.

NOTE: THIS PRODUCT MAY CONTAIN TRACE AMOUNTS OF ETHYLENE OXIDE (ETO) WHICH COULD ACCUMULATE IN THE HEADSPACE OF STORAGE AND TRANSPORT VESSELS, REPEATED/PROLONGED AIRBORNE EXPOSURES TO ETO MAY BE HARMFUL SINCE ETO IS A CANCER HAZARD AND REPRODUCTIVE HAZARD.

OSHA HAS ESTABLISHED A 1.0 PPM 8-HOUR TWA FOR ETO (29 CFR 1920.1047). SOME REQUIREMENTS OF THIS STANDARD MAY APPLY TO YOUR OPERATION.

FOR ADDITIONAL MEDICAL INFORMATION, CALL 1-800-228-5635

SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

CONTAIN ALL SPILLS AND LEAKS TO PREVENT DISCHARGE INTO THE ENVIRONMENT.

VENTILATE AREA

SMALL SPILLS: SOAK UP WITH ABSORBANT, SHOVEL INTO WASTE CONTAINER, FLUSH AREA WITH WATER.

LARGE SPILLS: RECOVER LIQUID FOR REPROCESSING OR DISPOSAL.

WASTE DISPOSAL: RECOVER MATERIAL OR DISPOSE (INCINERATION IS PREFERRED) IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS. MATERIAL COLLECTED WITH ABSORBANT MAY BE DISPOSED IN A PERMITTED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. EMPTY CONTAINER MAY RETAIN VAPOR OR PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED, RECONDITIONED, OR DESTROYED.

SECTION VIII: PROTECTIVE MEASURES

EYE PROTECTION: WEAR FULL FACE SHIELD OR GOGGLES WHEN HANDLING.

PROTECTIVE GLOVES: USE IMPERVIOUS GLOVES

RESPIRATORY PROTECTION: IF VAPORS ARE PRESENT, USE NIOSH OR MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS, AIR-LINE RESPIRATOR, OR A SELF-CONTAINED BREATHING APPARATUS.

VENTILATION: USE ADEQUATE VENTILATION.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING TO PREVENT PROLONGED OR PROLONGED CONTACT. EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR WORK AREA.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE: AVOID OVERHEATING OR FREEZING. AVOID OPEN FIRE OR FLAME

OTHER PRECAUTIONS: SPILLED MATERIAL IS SLIPPERY. WASH THOROUGHLY AFTER HANDLING. IF INGESTED, CALL A PHYSICIAN.

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