

KIWOCLEAN AQ 808

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY / TRADE NAME: KIWOCLEAN AQ 808

MANUFACTURER: KIWO, INC.

ADDRESS: 1929 MARVIN CIRCLE, P.O. BOX 1009, SEABROOK, TX 77586

INFORMATION TELEPHONE NUMBER: 281-474-9777

HAZARD DATA SECTION

HAZARDOUS INGREDIENTS %RANGE CAS NUMBER

MIXTURE OF NON-HAZARDOUS INGREDIENTS CONTAINING NOT MORE THAN 15%
OF A TRADE SECRET MATERIAL WHICH IS CLASSIFIED AS A MILD IRRITANT.IGNITION TEMPERATURE 509° F VAPOR PRESSURE: <0.1MM HG
SOLUBILITY: 100% IN WATER DENSITY: 0.99 G/CM2
APPEARANCE AND ODOR: COLORLESS LIQUID, FAINT ESTER ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO OXIDIZER: NO

ORGANIC PEROXIDE: NO FLAMMABLE/COMBUSTIBLE: YES

FLASH POINT: 226°F (108°C)

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES: WEAR SCBA AND FULL PROTECTIVE
EQUIPMENT. COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

EXPLOSIVE: YES LEL: 0.9 % UEL: 12.0%

REACTIVITY/INCOMPATIBILITY: STRONG OXIDIZING AGENTS, STRONG ACIDS AND
ALKALIES.HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION PRODUCTS CAN INCLUDE
CO, CO2, SULFUR CONTAINING COMPOUNDS.SPECIAL STORAGE PRECAUTIONS: KEEP CONTAINERS CLOSED. STORE IN A COOL,
DRY, WELL-VENTILATED PLACE AWAY FROM HEAR OR SOURCES OF IGNITION AND
INCOMPATIBLE MATERIALS.

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HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: IRRITATION OF EYES,SKIN, MUCOUS MEMBRANES, CENTRAL NERVOUS SYSTEM,DEPRESSION, HEADACHE, DIZZINESS, DROWSINESS, NAUSEA.

CHRONIC EFFECTS OF OVEREXPOSURE: NONE KNOWN

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EXISTING DERMATITIS MAY BE AGGRAVATED.

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INHALATION, CAN BE ABSORBED THROUGH INTACT SKIN.

LISTED CARCINOGEN: NO

EXPOSURE LIMITS: OSHA TLV

NONE KNOWN

FIRST AID: EYES-FLUSH WITH WATER 15 MINUTES, SEE PHYSICIAN. SKIN-WASH WITH SOAP AND WATER, REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. INHALATION-REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION IF NEEDED. INGESTION- DRINK LOTS OF WATER, GET IMMEDIATE MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: AVOID SKIN CONTACT, DO NOT WEAR CONTAMINATED CLOTHING, WASH WELL AFTER USE.

SPECIAL PROTECTIVE MEASURES DURING REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: ADDITIONAL PROTECTIVE CLOTHING AND/OR RESPIRATORY PROTECTION MAY BE NEEDED TO PREVENT OVER-EXPOSURE.

SPILL HANDLING/CLEAN-UP: REMOVE ALL SOURCES OF IGNITION, VENTILATE, CONTAIN SPILL, DON APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT. ABSORB, PICK UP AND PLACE IN CONTAINERS FOR DISPOSAL. KEEP ALL SOURCES OF IGNITION AWAY UNTIL ALL VAPORS HAVE DISSIPATED.

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CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT (APPROXIMATELY 10 AIR CHANGES PER HOUR)

RECOMMENDED WORK PRACTICES: KEEP CONTAINERS CLOSED WHEN NOT IN USE. NO SMOKING OR IGNITION SOURCES IN USE AREAS.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: RESPIRATOR SELECTION DEPENDS ON CONTAMINANT TYPES AND FORM. IF NEEDED, CONSULT AN INDUSTRIAL HYGIENIST FOR ASSISTANCE IN SELECTION AND USE.

GLOVES: IMPERVIOUS GLOVES RECOMMENDED IF SKIN CONTACT IS POSSIBLE.

EYE PROTECTION: CHEMICAL SAFETY GOGGLES

OTHER: EYE WASH, WASHING FACILITIES, IMPERVIOUS APRON OR OTHER CLOTHING AS NEEDED TO PREVENT SKIN CONTACT OR CLOTHING CONTAMINATION.

COMMENTS: FOR INDUSTRIAL/COMMERCIAL USE ONLY

REGULATORY STATUS

TSCA - ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

THE FOLLOWING CHEMICAL INGREDIENTS ARE REGULATED UNDER PROPOSITION 65 OF THE STATE OF CALIFORNIA

NONE

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372 (SARA 313 - TOXIC CHEMICAL RELEASE REPORTING.)

NONE

VOC CONTENT 7.1 POUNDS/GALLON 854 GRAMS/LITER

DATE PREPARED/UPDATED: FEBRUARY 13, 2003
PREPARED BY: CLARK KING, EXEC.V.P., KIWO, INC.

KIWOCLEAN AQ 508 CF

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTITY / TRADE NAME: KIWOCLEAN AQ 508 CF

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HAZARDOUS INGREDIENTS:	% RANGE	CAS #
WATER	75-95%	
METAPERIODATE (AS GROUP 1A SALT)	2-12%	7790-28-5

BOILING POINT: 100°C VAPOR PRESSURE: UNKNOWN
SOLUBILITY IN WATER: SOLUBLE IN WATER DENSITY: 1.05 G/CM³
APPEARANCE AND ODOR: CLEAR, COLORLESS LIQUID, NO ODOR

PHYSICAL HAZARD DATA

COMPRESSED GAS: NO PYROPHORIC: NO OXIDIZER: YES

ORGANIC PEROXIDE: NO FLAMMABLE/COMBUSTIBLE: NO FLASH POINT: N/A

EXTINGUISHING MEDIA: NON-COMBUSTIBLE, USE EXTINGUISHING AGENT
APPROPRIATE FOR SURROUNDING FIRE.

SPECIAL FIREFIGHTING PROCEDURES: WEAR SCBA FOR FIRE INVOLVING THIS
PRODUCT. KEEP FIRE EXPOSED CONTAINERS COOL IF POSSIBLE.
EXPLOSIVE: NO

REACTIVITY/INCOMPATIBILITY: PERIODATES REACT WITH REDUCING AGENTS.
INCOMPATIBLE WITH MATERIALS THAT REACT WITH WATER OR OXIDIZING AGENTS,
HYDROGEN HALIDE.

HAZARDOUS DECOMPOSITION PRODUCTS: NASCENT HALOGENS ON CONTACT WITH
HALOGEN HALIDES.

SPECIAL STORAGE PRECAUTIONS: STORE IN CLOSED CONTAINER, KEEP OUT OF
DIRECT SUNLIGHT

HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE: SKIN DRYING AND IRRITATION, IRRITATION OR
BURNS TO THE EYE, IRRITATION OF UPPER RESPIRATORY TRACT, HEADACHE,

KIWOCLEAN AQ 508 CF

TIGHTNESS OF CHEST IF MIST INHALED. INGESTION CAN CAUSE IRRITATION OR BURNS OF THE MOUTH, VOMITING, ABDOMINAL PAIN, DIARRHEA, SKIN RASH

CHRONIC EFFECTS OF OVEREXPOSURE: NONE REPORTED IN CURRENT LITERATURE

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: DERMATITIS

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN, INGESTION, INHALATION
LISTED CARCINOGEN: NO
EXPOSURE LIMITS: NONE ESTABLISHED

FIRST AID: FOR SKIN CONTACT-FLUSH THOROUGHLY WITH WATER. FOR CONTACT WITH EYES-FLUSH WITH WATER FOR AT LEAST 15 MINUTES OR IF AVAILABLE A 1% SODIUM BICARBONATE SOLUTION, THEN SEEK MEDICAL ATTENTION. FOR INGESTION- GIVE PLENTY OF WATER, THEN INDUCE VOMITING. (NEVER MAKE AN UNCONSCIOUS PERSON VOMIT). SEEK IMMEDIATE MEDICAL ATTENTION. INHALATION-REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION.

SAFE HANDLING PROCEDURES

HYGIENIC PRACTICES: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. WASH AFTER HANDLING

SPECIAL PROTECTIVE MEASURES DURING REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: PROTECTIVE EQUIPMENT RECOMMENDED

SPILL HANDLING/CLEAN-UP: WEAR PROTECTIVE EQUIPMENT, AVOID CONTACT, ABSORB AND PLACE IN CONTAINER FOR DISPOSAL. WASH RESIDUE WITH WATER

CONTROL MEASURES

RECOMMENDED ENGINEERING CONTROLS: NONE REQUIRED FOR NORMAL USE

RECOMMENDED WORK PRACTICES: AVOID CREATING OR BREATHING MIST. AVOID CONTACT WITH SKIN, EYES, OR CLOTHING

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED. A NIOSH APPROVED MIST RESPIRATOR CAN BE USED IF NEEDED. RESPIRATOR SELECTION DEPENDS ON PROCESS, CONDITIONS, AND CONTAMINANT CONCENTRATION. USE APPROPRIATE EQUIPMENT AS RECOMMENDED BY AN INDUSTRIAL HYGIENIST OR OTHER HEALTH PROFESSIONAL

GLOVES: USE RUBBER OR NEOPRENE GLOVES

EYE PROTECTION: USE CHEMICAL SPLASH GOGGLES

OTHER: A PROTECTIVE APRON CAN BE USED IF CONTACT IS LIKELY

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NONE

VOC CONTENT: NONE

DATE PREPARED/UPDATED: JANUARY 19, 2001
PREPARED BY: CLARK KING, EXEC.V.P., KIWO, INC.

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