Bioxide

U.S. FILTER
DAVIS PROCESS

Day (941) 355-2971
Emerg # 24 hrs.
CHEMTREC (800) 424-9300

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME: U.S. FILTER/DAVIS PROCESS	DATE: 4/24/98
ADDRESS (Number, Street, City, State, and ZIP Code): 2650 Tallevast Road, P.O. Box 29, Tallevast, FL 34270-0029	
CHEMICAL NAME AND SYNONYMS: Anthraquinone, CAS #84-65-1, plus inert ingredients	TRADE NAME AND SYNONYMS: AQUIT™
CHEMICAL FAMILY: Aromatic Ketone	FORMULA: Active: 50%, H_2O: 48%, Inerts: 2%

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Contains no hazardous substances (as listed in 40 CFR 302)		
Major Active Ingredient - anthraquinone		
D.O.T. Hazard class/Label/Placard - Non-regulated		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O =1) at 20°C	1.20
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%) (water)	48
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ = 1)	N/A
SOLUBILITY IN WATER	Miscible		

APPEARANCE AND ODOR: Light tan solution, weak aromatic odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): N/A	FLAMMABLE LIMITS	LEL	UEL
		N/A	N/A

EXTINGUISHING MEDIA: Water Spray. Foam. Dry Chemicals. CO_2. Halon

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Wear full protective equipment. Use waterspray. ~~Cool tank/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since~~ water may increase area contaminated.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

(Continued on reverse side)

24-hour Emergency Phone: (800)255-3924
PRODUCT CODE: 1499

SECTION V - REACTIVITY DATA

STABILITY: Product is stable under normal conditions.
CONDITIONS TO AVOID: None known.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition and or burning may produce oxides of carbon, HCl gas, Phosgene.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation X Eye Contact X
Skin Contact X Ingestion ___

EXPOSURE LIMIT: Refer to Section II for PEL / TLV exposure limits.

ACUTE EFFECTS OF OVEREXPOSURE

INHALATION: Inhalation of mist can cause irritation of nasal and respiratory passages. Abusive or excessive inhalation may cause irritation to upper respiratory tract, dizziness, nausea and other central nervous system effects.

EYE CONTACT: Can cause moderate irritation, redness, tearing.

SKIN CONTACT: Prolonged or frequently repeated skin contact may cause allergic reactions, redness, drying or possible cracking.

SKIN ABSORBTION: No evidence of adverse effects from available information.

INGESTION: Harmful if swallowed. Can cause mouth, throat, and gastro-intestinal tract irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

CHRONIC EFFECTS OF OVEREXPOSURE: Chronic effects and medical conditions aggravated by overexposure to this product have not been established. Unnecessary exposure to this product or any chemical should be avoided.

CARCINOGENICITY: **NTP CARCINOGEN:**___ **IARC MONOGRAPHS:**___ **OSHA REGULATED:**___

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE: No additional effects of overexposure to this material can be found from available information.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing has stopped give artificial respiration. Get IMMEDIATE MEDICAL ATTENTION

EYE CONTACT: IN CASE OF CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician. Wash skin with soap and water.

SKIN CONTACT: In case of contact, immediately flush skin with soap and water.

INGESTION: IF SWALLOWED: Call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

24-hour Emergency Phone: (800)255-3924
PRODUCT CODE: 1499

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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all ignition sources. Avoid breathing vapors. Shut off source of spill if it can be done safely. Use non-sparking tools. Absorb with inert, absorbant material and dispose of in accordance with applicable regulations.

WASTE DISPOSAL METHOD: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store above 120 F. Keep closure tight and container upright to prevent leakage. Store drum out of sunlight and away from heat, sparks, or flame. Store only in well-ventilated areas.

OTHER PRECAUTIONS: Follow label instructions. KEEP OUT OF REACH OF CHILDREN.

========== SECTION VIII - PERSONEL SAFETY MEASURES ==========

RESPIRATORY PROTECTION: None required in excess of normal ventilation.

VENTILATION: Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements.

PROTECTIVE GLOVES: Not required, but contact with skin must be avoided.

EYE PROTECTION: Safety eyewear designed to protect against dust and aerosol size particles are recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling.

========== SECTION IX - REGULATORY INFORMATION ==========

TOXIC SUBSTANCES CONTROL ACT (TSCA): All chemical components in this product are listed on the TSCA Inventory List, or are exempt from listing.

SARA Section 312 HAZARD CATEGORIES: Fire Hazard X Reactivity Hazard ___

Acute Health Hazard X Chronic Health Hazard ___ Pressure Hazard X

SARA Section 313 REPORTABLE COMPONENTS: (See Section II, If Applicable)

========== SECTION X - SHIPPING INFORMATION ==========

DOT SHIPPING NAME: ORM-D Consumer Commodity
DOT HAZARD CLASS: Not Applicable
UN NUMBER: Not Applicable
DOT PACKING GROUP: Not Applicable
SPECIAL SHIPPING INFORMATION: Not Applicable

========== DISCLAIMER ==========

The information on this Material Safety Data Sheet represents our current available data and best opinion as to the proper handling in use of this product under normal conditions. Any use of this product which is not in conformance with this Data Sheet or which involves using this product in combination with other materials, or processes is the sole responsibility of the user.

MATERIAL SAFETY DATA SHEET

24-hour Emergency Phone: (800)255-3924
PRODUCT CODE: 1499

PRODUCT NAME: ASSAULT (A/14)
PRODUCT CODE: 1499

HMIS CODES:

H	C	F	R	P
2		3	0	B

WHMIS CLASS: A & D,2,B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: ATCO International
ADDRESS : 2136 Kingston Court
Marietta, GA 30067-8902
INFORMATION PHONE : (770)424-7550

DATE PRINTED: 03/24/2003

PREPARED BY: LARRY E. OBERT, DIRECTOR OF TECHNICAL SERVICES
REVISION DATE: 12/04/2001

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS

	CAS NUMBER	PEL	TLV	WEIGHT PERCENT
ACETATE ESTER	108419-35-8	50ppm	50ppm	20-30%
PHENOXYBENZYL CYCLOPROPANECARBOXYLATE	26002-80-2	ND	ND	0.125%
1,1,1,2, TETRAFLUOROETHANE	811-97-2	ND	ND	20-30%
TETRAMETHRIN	7696-12-0	ND	ND	0.200%
VM&P NAPHTHA	8032-32-4	300ppm	300ppm	10-20%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: Approx 150 F
VAPOR DENSITY: ND
DENSITY: 6.89 lb/gl
SOLUBILITY IN WATER: INSOLUBLE.
APPEARANCE AND ODOR: TRANSPARENT OILY LIQUID
ODOR: SOLVENT / INSECTICIDE ODOR

SPECIFIC GRAVITY (H2O=1): 0.826
EVAPORATION RATE: ND
MATERIAL V.O.C.: Approx 16%
pH (Concentrate): NA
pH (Diluted): NA

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSHA FLAMMABILITY CLASSIFICATION: NON-FLAMMABLE AEROSOL
FLASH POINT: (Conc. Only) 100 F METHOD USED: Flame Ext.
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: Dry chemicals, Foam, or Carbon Dioxide.

SPECIAL FIREFIGHTING PROCEDURES: If water is used, fog nozzles are preferable. Water may be used to cool closed containers in order to prevent pressure build up which may result in containers rupturing. Use self contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to temperatures above 120 deg.F may cause bursting.