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EMERGENCY TELEPHONE NUMBERS:**CHEMTREC® -ONLY IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK,
FIRE, EXPOSURE OR ACCIDENT****(800) 424-9300 -- USA****(202) 483-7616 (collect) -- INTERNATIONAL****M A T E R I A L S A F E T Y D A T A S H E E T****SECTION 1 ----- PRODUCT / CHEMICAL IDENTIFICATION-----**

PRODUCT NAME: ALGAE-X Fuel Catalyst AFC-805

SECTION 2 -----PRODUCT INFORMATION / COMPOSITION-----

<u>MATERIAL</u>	<u>CAS NUMBER</u>	<u>%</u>
PROPRIETARY ADDITIVE PACKAGE		30-40
ETHYLENE VINYL ACETATE BASED POLYMERS		25-45
LIGHT AROMATIC NAPHTHA	64742-95-6	20-40
*(1,2,4-TRIETHYLBENZENE)	95-63-6	<20
*(XYLENE)	1330-20-7	<10
*(CUMENE)	98-82-8	<2

*DISCLOSURE AS A TOXIC CHEMICAL IS REQUIRED UNDER SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR part 372.

SECTION 3 -----HAZARD IDENTIFICATION-----**IRRITANT!**

MAY BE HARMFUL BY INHALATION, INGESTION OR SKIN ABSORPTION. VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES SKIN IRRITATION. INGESTION MAY CAUSE: WEAKNESS, TEMPORARY NERVOUS SYSTEM DEPRESSION, GASTROINTESTINAL DISTURBANCES, DIZZINESS, CONFUSION, INCOORDINATION, NAUSEA, HEADACHE AND LOSS OF CONSCIOUSNESS.

REFER TO SECTION 4 FOR FIRST-AID MEASURES

SECTION 4 -----FIRST AID MEASURES-----

IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

SEPARATE EYELIDS WITH FINGERS TO INSURE ADEQUATE FLUSHING.

IN CASE OF CONTACT WITH SKIN, IMMEDIATELY WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING PROMPTLY AND WASH BEFORE REUSE.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH.

IF BREATHING IS DIFFICULT, GIVE OXYGEN.

IF INGESTED, DO NOT INDUCE VOMITING. ALLOW VICTIM TO RINSE HIS MOUTH AND THEN TO DRINK 2-4 CUPFULS OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

CALL A PHYSICIAN.

SECTION 5 -----FIRE FIGHTING MEASURES AND EXPLOSION DATA-----

FLASH POINT: 131°F (55°C)

EXTINGUISHING MEDIA:

WATER SPRAY

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING TO PREVENT CONTACT WITH VAPOR AND/OR TOXIC FUMES.

SECTION 6 -----ACCIDENTAL SPILL OR LEAK PROCEDURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

SHUT OFF ALL SOURCES OF IGNITION. EVACUATE AREA. WEAR SELF CONTAINED BREATHING APPARATUS, RUBBER BOOTS, AND HEAVY RUBBER GLOVES. SPILLS ARE VERY SLIPPERY. ABSORB ON SAWDUST, SAND OR VERMICULITE, PLACE IN A CLOSED CONTAINER AND HOLD FOR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

MATERIAL SAFETY DATA SHEET

AFC-805

SECTION 7 -----PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-----

PLEASE REFER TO SECTION 8

SECTION 8 -----EXPOSURE CONTROL / PERSONAL PROTECTION-----

CHEMICAL SAFETY GOGGLES AND A FACE SHIELD
IMPERVIOUS RUBBER GLOVES
OSHA/MSHA-APPROVED RESPIRATOR
SAFETY SHOWER AND EYE BATH
MECHANICAL EXHAUST REQUIRED
AVOID BREATHING VAPOR
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING
AVOID PROLONGED OR REPEATED EXPOSURE
HARMFUL LIQUID
WASH THOROUGHLY AFTER HANDLING
KEEP TIGHTLY CLOSED WHEN NOT IN USE
KEEP AWAY FROM HEAT, SPARKS OR FLAMES
STORE IN A COOL, DRY PLACE

EXPOSURE LIMITS:

1,2,4-TRIMETHYLBENZENE

PEL (OSHA) 25 ppm, 125 mg/m³, 8 hr TWA
TLV (ACGIH) 25 ppm, 123 mg/m³, 8 hr TWA

XYLENE

PEL (OSHA) 100 ppm, 435 mg/m³, 8 hr TWA
TLV (ACGIH) 100 ppm, 434 mg/m³, 8 hr TWA
STEL 150 ppm, 651 mg/m³

CUMENE

PEL (OSHA) 50 ppm, 245 mg/m³, 8 hr TWA skin
TLV (ACGIH) 50 ppm, 246 mg/m³, 8 hr TWA skin

THE "SKIN" NOTATION FOLLOWING THE EXPOSURE GUIDELINE REFERS TO THE POTENTIAL FOR DERMAL ABSORPTION OF THE MATERIAL. IT IS INTENDED TO ALERT THE READER THAT INHALATION MAY NOT BE THE ONLY ROUTE OF EXPOSURE AND THAT MEASURES TO MINIMIZE DERMAL EXPOSURE SHOULD BE CONSIDERED.

SECTION 9 -----PHYSICAL AND CHEMICAL PROPERTIES-----

APPEARANCE: CLEAR, DARK AMBER LIQUID WITH A HYDROCARBON ODOR
VAPOR PRESSURE: NOT TESTED
VAPOR DENSITY: NOT TESTED
SPECIFIC GRAVITY: 0.90 – 0.94 @ 60°F
EVAPORATION RATE: NOT TESTED
SOLUBILITY IN WATER: NEGLIGIBLE

SECTION 10 -----STABILITY AND REACTIVITY DATA-----

STABILITY: STABLE

INCOMPATIBILITIES:

STRONG OXIDIZING AGENTS
STRONG ACIDS
STRONG BASES
REDUCING AGENTS

THERMAL DECOMPOSITION GENERATES: CARBON DIOXIDE, CARBON MONOXIDE, AND NITROGEN OXIDES
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11 -----TOXICOLOGICAL INFORMATION-----

ANIMAL DATA:

LIGHT AROMATIC NAPHTHA:

INHALATION 6 hour LC50
ORAL LD50

>14.4 mg/l in rats
~5000 mg/kg in rats

XYLENE:

INHALATION 4 hour LC50
SKIN ABSORPTION
ORAL ALD

6,700 ppm in rats
4,320 mg/kg in rabbits
4,500 mg/kg in rats

MATERIAL SAFETY DATA SHEET

AFC-805

SECTION 11 -----TOXICOLOGICAL INFORMATION (CONT'D)-----

LIGHT AROMATIC NAPHTHA IS A MODERATE SKIN IRRITANT, A SLIGHT EYE IRRITANT AND A SKIN PHOTOSENSITIZER IN ANIMALS. TOXIC EFFECTS OF A SINGLE INHALATION EXPOSURE TO VERY HIGH CONCENTRATIONS INCLUDE HYPERACTIVITY, SALIVATION, INCOORDINATION, TREMORS, IRREGULAR RESPIRATION, AND NON SPECIFIC EFFECTS SUCH AS WEIGHT LOSS AND IRRITATION. LONG-TERM INHALATION EXPOSURE PRODUCED NO SIGNIFICANT EFFECTS FROM EXPOSURE TO CONCENTRATIONS OF UP TO 400 ppm FOR ONE YEAR. NO ANIMAL TEST REPORTS ARE AVAILABLE TO DEFINE CARCINOGENIC, MUTAGENIC, DEVELOPMENTAL OF REPRODUCTIVE HAZARDS.

DERMAL ABSORPTION OF XYLENE IN ANIMALS CAUSES NARCOSIS. TOXIC EFFECTS DESCRIBED IN ANIMALS BY INHALATION INCLUDE UPPER RESPIRATORY IRRITATION; CENTRAL NERVOUS SYSTEM EFFECTS; BEHAVIORAL EFFECTS; DECREASED WEIGHT GAIN; HEARING LOSS; AND EFFECTS ON THE BLOOD, LIVER, KIDNEYS, HEART, SPLEEN, LUNGS AND BONE MARROW. BY INGESTION, XYLENE CAUSES CENTRAL NERVOUS SYSTEM EFFECTS; DECREASED BODY WEIGHT; AND LIVER EFFECTS. TESTS OF XYLENE IN ANIMALS DEMONSTRATE NO CARCINOGENIC ACTIVITY. XYLENE DOES NOT PRODUCE HERITABLE GENETIC DAMAGE IN BACTERIAL OF MAMMALIAN CELL CULTURES. ALTHOUGH ABNORMAL SPERM WERE OBSERVED AFTER AN INTERPERITONEAL INJECTION IN RATS, XYLENE DID NOT PRODUCE REPRODUCTIVE EFFECTS. DEVELOPMENTAL TOXICITY WAS OBSERVED IN ANIMALS EXPOSED TO XYLENE BUT ONLY AT CONCENTRATIONS THAT WERE MATERNALLY TOXIC.

SECTION 12 -----ECOLOGICAL INFORMATION-----

LIGHT AROMATIC NAPHTHA: LC50, WHITE CRAPPIE, 4.2 mg/l
XYLENE: 96 HOUR LC50, FLATHEAD MINNOW: 27-42 mg/l

SECTION 13 -----DISPOSAL PROCEDURES-----

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

SECTION 14 -----TRANSPORTATION INFORMATION-----

DOT:

NOT REGULATED IN NON-BULK CONTAINER FOR TRANSPORT BY GROUND FREIGHT (49 CFR 173.150)

AIR FREIGHT (ICAO / IATA):

PETROLEUM PRODUCTS, N.O.S. (LIGHT AROMATIC NAPHTHA, XYLENE)

UN 1268

PACKAGING GROUP: III

LABEL: FLAMMABLE

SECTION 15 -----REGULATORY INFORMATION-----

DATA FOR THIS COMPOUND IS NOT YET AVAILABLE

SECTION 16 -----ADDITIONAL COMMENTS AND INFORMATION-----

IRRITANT!

ALWAYS USE PERSONAL PROTECTIVE EQUIPMENT AND FOLLOW SAFE LABORATORY PRACTICES DURING THE HANDLING OR DISPOSAL OF THIS CHEMICAL.

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