

ALGAE-X International

5400-1 Division Drive
Fort Myers, FL 33905

TELEPHONE: [+1] (239) 690-9589
FAX: [+1] (239) 690-1195

SEPTEMBER 8, 2006
(UPDATED)

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: AFC-705

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

<u>MATERIAL</u>	<u>CAS NUMBER</u>	<u>%</u>
PROPRIETARY ADDITIVE PACKAGE		70-80
LIGHT AROMATIC NAPHTHA, NAPHTHALENE DEPLETED *(ETHYLBENZENE)	64742-94-5 100-41-4	20-30 <1.5

*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. MAY CAUSE SKIN IRRITATION. INGESTION MAY CAUSE: WEAKNESS, TEMPORARY NERVOUS SYSTEM DEPRESSION, GASTROINTESTINAL DISTURBANCES, DIZZINESS, CONFUSION, INCOORDINATION, NAUSEA, HEADACHE AND LOSS OF CONSCIOUSNESS.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES OF THIS COMPOUND HAVE NOT BEEN THOROUGHLY INVESTIGATED

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: 158°F (70°C) (TAG CLOSED CUP)

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.

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

MATERIAL SAFETY DATA SHEET

=====

AFC-705

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.

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

IRRITANT

COMBUSTIBLE LIQUID

AVOID BREATHING VAPOR

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING

AVOID PROLONGED OR REPEATED EXPOSURE

WASH THOROUGHLY AFTER HANDLING

KEEP TIGHTLY CLOSED WHEN NOT IN USE

KEEP AWAY FROM HEAT, SPARKS OR FLAMES

STORE IN A COOL, DRY PLACE

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

APPEARANCE: CLEAR, DARK AMBER LIQUID WITH A HYDROCARBON ODOR

BOILING POINT: <212 °F

VAPOR PRESSURE: NOT TESTED

VAPOR DENSITY: NOT TESTED

SPECIFIC GRAVITY: 0.87 – 0.93 @ 24°C

EVAPORATION RATE: NOT TESTED

SOLUBILITY IN WATER: NEGLIGIBLE

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

STABILITY: STABLE

INCOMPATIBILITIES:

STRONG OXIDIZING 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 (NAPHTHALENE DEPLETED):

INHALATION 6 hour LC50

>14.4 mg/l in rats

ORAL LD50

~5000 mg/kg in rats

TLV-TWA 100 ppm (PETROLEUM CARRIER SOLVENT)

LIGHT AROMATIC NAPATHA IS A MODERATE SKIN IRRITANT, A SLIGHT EYE IRRITANT AND A SKIN PHOTSENSITIZER IN ANIMALS. TOXIC EFFECTS OF A SINGLE INHALATION EXPOSURE TO VERY HIGH CONCENTRATIONS INCLUDE HYPERACTIVITY, SALAVATION, 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.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES OF THIS COMPOSITION HAVE NOT BEEN THOROUGHLY INVESTIGATED

MATERIAL SAFETY DATA SHEET

=====

AFC-705

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

LIGHT AROMATIC NAPHTHA: LC50, WHITE CRAPPIE, 4.2 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-----

NON-BULK SHIPMENTS

GROUND, AIR, OCEAN THIS MATERIAL IS **NOT REGULATED**, FOR TRANSPORTATION TO, THROUGH AND FROM THE UNITED STATES **AS PER CFR 49, 173.150(f)**.

BULK SHIPMENT

GROUND, AIR, OCEAN (DOMESTIC SHIIPMENTS ONLY)

PROPER SHIPPING NAME

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

UN 1268

NO LABEL REQUIRED (COMBUSTIBLE LIQUID)

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

THIS MATERIAL IS AN EPA REGISTERED FUEL ADDITIVE

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.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY IS MADE, EITHER EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY OR THE RESULTS TO BE OBTAINED FROM THE USE OF SUCH INFORMATION. ALGAE-X INCORPORATED SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.