

MATERIAL SAFETY DATA SHEET

ALGAE-X FUEL CATALYST AFC-705

ALGAE-X International

1661 Estero Blvd. #18
PO Box 4011
FT. Myers Beach, FL 33932

Telephone: 941-463-0607
FAX: 941-463-7855

EMERGENCY RESPONSE

CHEMTREC ONLY IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A
SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT.

USA -- (800) 424-9300

INTERNATIONAL -- (202) 483-7616 (collect)

UPDATED March 14, 2001

IDENTIFICATION

PRODUCT NAME: ALGAE-X FUEL CATALYSTS (AFC-705) IN PETROLEUM SOLVENT.

PHYSICAL DATA

BOILING POINT:	>212° F
VAPOR PRESSURE:	NOT TESTED
VAPOR DENSITY:	NOT TESTED
SPECIFIC GRAVITY:	0.94 – 0.98 AT 60°F
EVAPORATION RATE:	NOT TESTED
SOLUBILITY IN WATER:	NEGLIGIBLE
APPEARANCE:	CLEAR, DARK AMBER LIQUID WITH HYDROCARBON ODOR.

REACTIVITY DATA

STABILITY: STABLE

- INCOMPATIBILITIES: STRONG OXIDIZING AGENTS.
- HAZARDOUS COMBUSTION OF DECOMPOSITION PRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE AND CYANIDE SALTS ARE FORMED
WHEN PRODUCTS CONTACT STRONG ALKALI. THERMAL DECOMPOSITION
GENERATES HYDROGEN CYANIDE AND SULFUR DIOXIDE.
- HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

FIRE AND EXPLOSION DATA

- FLASH POINT: TAG CLOSED CUP 158°F
- EXTINGUISHING MEDIA:
WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER, OR POLYMER FOAM.
- SPECIAL FIRE FIGHTING PROCEDURES:
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH VAPORIZED MATERIAL AND/OR TOXIC FUMES.
- UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE.

TOXICITY HAZARDS

TLV-TWA 100 ppm (PETROLEUM CARRIER SOLVENT)
TO THE BEST OF OUR KNOWLEDGE, THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE BEEN THOROUGHLY INVESTIGATED.

HEALTH HAZARD DATA

ACUTE EFFECTS OF EXPOSURE: 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. EXPOSURE MAY CAUSE GASTROINTESTINAL DISTURBANCES, NAUSEA, HEADACHE, AND VOMITING.

FIRST AID:

- IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
- IN CASE OF CONTACT WITH SKIN, IMMEDIATELY WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER.
- IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

FOR CHEMICAL HANDLING USE SAFETY GOGGLES AND A FACE SHIELD IMPERVIOUS RUBBER GLOVES OSHA/MSIIA-APPROVED RESPIRATOR SAFETY SHOWER AND EYE BATH. MECHANICAL EXHAUST REQUIRED.
AVOID BREATHING VAPOR AND PROLONGED OR REPEATED EXPOSURE.
DO NOT GET IN/ON EYES, SKIN, CLOTHING. WASH THOROUGHLY AFTER HANDLING.
KEEP AWAY FROM HEAT OR OPEN FLAME.
KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

SPILL OR LEAK PROCEDURE

- **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. ABSORB ON SAND OR VERMICULITE, TAKE UP, PLACE IN A CONTAINER, AND HOLD FOR WASTE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. VENTILATE AREA AND SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
- **WASTE DISPOSAL METHOD:**
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.**
STORE IN A COOL, DRY PLACE.

TRANSPORTATION REFERENCE

- **NON-BULK SHIPMENTS**
GROUND, AIR, OCEAN THIS MATERIAL IS **NOT REGULATED**, FOR TRANSPORTATION TO, THROUGH, AND FROM THE UNITED STATES **AS PER C F R 49, 173.150 (f)**
- **BULK SHIPMENTS**
GROUND, AIR, OCEAN (DOMESTIC SHIPMENTS ONLY)

PROPER SHIPPING NAME

- **COMBUSTIBLE LIQUID N.O.S. (2-(THIOCYANOMETHYLTHIO) BENZOTHAZOLE. METHYLENE BIS(THIOCYANATE(, XYLENE SOLUTION), NA 1993, PGIII**

ADDITIONAL PRECAUTIONS AND COMMENTS

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

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