



PO BOX 16458 • FRESNO CA 93755

MATERIAL SAFETY DATA SHEET

PRODUCT/TRADE NAME: NU-FLOW M-HF

I. NAME

PRODUCT/TRADE NAME: NU-FLOW M-HF
EPA REGISTRATION #: 62719-412-2935
CHEMICAL NAME/Common Name:
a-butyl-a-(4-Chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile/Myclobutanil
Aromatic Solvent/Solvent Naphtha
Calcium dodecylbenzene sulfonate/Calcium dodecylbenzene sulfonate/CDS
Naphthalene/Naphthalene

II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Myclobutanil	88671-89-0	NE	NE
Naphthalene	91-20-3	10 mg/m3	10 mg/m3
Aromatic Solvent	64742-94-5	100 ppm	NE
CDS	26264-06-2	NE	NE

III. PHYSICAL DATA

SPECIFIC GRAVITY (H2O = 1): 1.02
MELTING POINT: -15 Deg. C solvent
VAPOR DENSITY (AIR = 1): 4.6 * (solvent)
% VOLATILES BY VOL.: 72
ODOR: Aromatic
APPEARANCE: Yellow Liquid
FLASH POINT/METHOD: >145 Deg. F TCC (solvent)
VAPOR PRESSURE (mmHg): 3.0 @ 25 Deg. C * (solvent)
SOLUBILITY IN H2O: Emulsifiable

IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA: Water Fog Foam Alcohol Foam
 CO2 Dry Chemical Other
FIRE FIGHTING PRECAUTIONS & HAZARDS:
Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Do not breathe smoke or spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

V. CARCINOGEN STATUS

OSHA NTP IARC No Listing Type

VI. REACTIVITY

Stable HAZARDOUS POLYMERIZATION
 Unstable May Occur Will Not Occur
AVOID: Acids, Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS: HCl, COx, Cl

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate personal and respiratory protective equipment. Absorb with inert material and sweep or vacuum into an approved disposal container.
DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material, and place in disposal container. Repeat as necessary until area is clean.
ENVIRONMENTAL HAZARDS: Toxic to fish and aquatic organisms. Dike to prevent entering drains, sewers or water courses.
DISPOSAL: Dispose of in accordance with federal, state and local regulations.

VIII. HEALTH PRECAUTION DATA

INGESTION: Acute oral LD50 (rat) 1280 mg/kg (Rohm & Haas). Do not ingest. Wash thoroughly before eating or smoking. Do not store near feed or food.
INHALATION: No established PEL/TLV. PEL/TLV Myclobutanil 1 ppm (Rohm & Haas). May cause respiratory tract irritation. Use proper respiratory equipment for exposures encountered.
SKIN ABSORPTION: Acute dermal LD50 (rabbit) >5,000 mg/kg (Rohm & Haas). May cause skin irritation and allergic reaction. Can be absorbed through the skin. Wear proper personal protective equipment to minimize skin exposure.
EYE EXPOSURE: Keep out of eyes. May cause severe eye irritation and possible permanent injury. Wear proper eye protection to minimize exposure. If exposed, flush eyes a minimum of 15 minutes with water.

EFFECTS OF OVEREXPOSURE: Effects of overexposure may include irritation of eyes, respiratory tract and skin, slurred speech, headache, nausea, drowsiness, dizziness, stupor and unconsciousness. Chronic exposure may result in liver, kidney or reproductive system damage. Preexisting medical conditions involving the above symptoms may be aggravated by exposure.
FIRST AID: In all cases, get prompt medical attention. If ingested, give several glasses of water. Do not induce vomiting. For skin exposure, remove contaminated clothing and wash with soap and water. For eye exposure, irrigate eyes a minimum of 15 minutes with water. For inhalation, remove victim to fresh air, and administer CPR if necessary.

IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear only NIOSH/MSHA - approved respirator for organic vapors for exposures encountered. Positive pressure self-contained breathing apparatus should be used for confined space entry and high exposure operations.
PERSONAL PROTECTIVE EQUIPMENT: Neoprene or rubber boots, Neoprene or nitrile gloves, long-sleeved coveralls, hat and safety goggles or glasses with side shields, depending on exposure expected. For manufacture, formulation and application operations, recommend a shower at the end of the work shift.
VENTILATION: Local exhaust ventilation recommended for manufacture and formulation. Store in a well-ventilated area. General ventilation should be sufficient for product user.

X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions.

XI. REGULATORY DATA

SARA HAZARD CLASS: Acute Chronic Flammable
 Pressure Reactive None

SARA 313: Yes No Chemical: Naphthalene/Myclobutanil

SARA 302: Yes No Chemical:

TPO:

CERCLA: Yes No Chemical: Naphthalene/Calcium, Dodecylbenzend Fulfonate

RO: 100*/1000*

RCRA: Yes No

NFPA HAZARD RATING:

Health: [3]

Fire: [2]

Reactivity: [0]

Special: [0]

HMS CODES:

Health: [3]

Fire: [2]

Reactivity: [0]

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

DATE PREPARED: September 9, 2002

REVISED DATE: March 15, 2005

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*Technical Material NE - Not Established NA - Not Applicable

**24 Hour Emergency Phone Number
CHEMTREC: (800) 424-9300**

