

**Cookson Electronics***A Division of Cookson Group plc*

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Revised 8/02/06  
Replaces 11/17/04  
Printed 8/02/06  
MSDS ID: NC027

# MATERIAL SAFETY DATA SHEET

**Alpha Metals**  
600 Route 440  
Jersey City, New Jersey 07304  
(201) 434-6778  
(201) 434-7508 fax  
www.alphametals.com

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PFL AQUALINE WS601;609;1206;1208;3005

MANUFACTURER'S NAME: ALPHA METALS, INC  
ADDRESS: 600 ROUTE 440  
JERSEY CITY, NJ 07304  
TRANSPORT EMERGENCY #: CHEMTREC: 1-800-424-9300  
BUSINESS PHONE: 1-201-434-6778

## 2. INGREDIENT AND EXPOSURE LIMIT INFORMATION

CHEMICAL NAME	CAS #	% W/W	OSHA PEL - TWA
B. TERPINEOL	138-87-4	20 - 30	NO PEL DATA
DIETHANOLAMINE	111-42-2	1 - 5	2 mg/m3
TRIETHANOLAMINE	102-71-6	1 - 5	5 mg/m3

## 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MODERATE EYE IRRITANT.  
COMBUSTIBLE AT ELEVATED TEMPERATURES  
TOXIC BY INHALATION.  
MODERATE GASTROINTESTINAL TRACT IRRITANT.  
MODERATE RESPIRATORY TRACT IRRITANT.  
CAUSES SKIN IRRITATION

HMIS RATING SYSTEM:

Health: 2 ; Flammability: 4 ; Reactivity: 0 ; Protection: B

NFPA RATING SYSTEM:

DIETHANOLAMINE health-1; flammability-1; reactivity-0  
TRIETHANOLAMINE health-2; flammability-1; reactivity-1

ROUTES OF ENTRY: INHALATION; INGESTION; SKIN CONTACT; EYE CONTACT;  
ABSORPTION

TARGET ORGANS: EYES; KIDNEYS; LIVER; NERVOUS SYSTEM; RESPIRATORY TRACT;  
SKIN

MEDICAL CONDITIONS AGGRAVATED: NO MEDICAL CONDITIONS AFFECTED BY EXPOSURE.  
EYE DISEASE; KIDNEY DISEASE; LIVER DISEASE;  
RESPIRATORY DISEASE INCLUDING ASTHMA AND  
BRONCHITIS; SKIN DISEASE INCLUDING ECZEMA AND  
SENSITIZATION

IMMEDIATE (ACUTE) SYMPTOMS OVER-EXPOSURE BY ROUTE OF EXPOSURE:  
INHALATION: CAN CAUSE MODERATE RESPIRATORY IRRITATION, DIZZINESS,  
WEAKNESS, FATIGUE, NAUSEA AND HEADACHE. MAY CAUSE AN  
ALLERGIC REACTION. MAY CAUSE RESPIRATORY TRACT  
SENSITIZATION, CHARACTERIZED BY ASTHMA-LIKE SYMPTOMS.



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## 5. FIRE FIGHTING MEASURES (Cont.)

MAY CAUSE FROTHING IF LIQUID IS BURNING BUT IT STILL MAY BE A USEFUL EXTINGUISHING AGENT IF CAREFULLY APPLIED TO THE SURFACE OF THE FIRE. DO NOT DIRECT A STREAM OF WATER INTO THE HOT BURNING LIQUID.

FIRE AND EXPLOSION HAZARDS: MATERIAL MAY BE IGNITED ONLY IF PREHEATED TO TEMPERATURES ABOVE THE HIGH FLASH POINT, FOR EXAMPLE IN A FIRE.

FIRE FIGHTING METHODS: WILL NOT BURN, NO SPECIAL INSTRUCTIONS AVAILABLE. USE METHODS APPROPRIATE FOR SURROUNDING MATERIALS.  
USE METHODS FOR THE SURROUNDING FIRE. FLAMMABLE COMPONENT(S) OF THIS MATERIAL MAY BE LIGHTER THAN WATER AND BURN WHILE FLOATING ON THE SURFACE.

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

## 6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT: EXPOSURE TO THE SPILLED MATERIAL MAY BE IRRITATING OR HARMFUL. FOLLOW PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS FOUND IN SECTION VIII OF THIS MSDS.

METHODS FOR CLEAN-UP: WEAR COMPLETE AND PROPER PERSONAL PROTECTIVE EQUIPMENT FOLLOWING THE RECOMMENDATION OF SECTION VIII GATHER AND STORE IN A SEALED CONTAINER PENDING A WASTE DISPOSAL EVALUATION. DO NOT USE BROOM OR AIR CLEANING ETC.

## 7. HANDLING AND STORAGE

HANDLING MEASURES: HARMFUL OR IRRITATING MATERIAL. AVOID CONTACTING AND AVOID BREATHING THE MATERIAL. USE ONLY IN A WELL VENTILATED AREA.  
AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL. AVOID CONTACT WITH MATERIAL, AVOID BREATHING DUSTS OR FUMES, USE ONLY IN A WELL VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING; DO NOT GET IN EYES, ON SKIN AND CLOTHING; REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE; USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT

STORAGE MEASURES: STORE IN A COOL DRY PLACE. ISOLATE FROM INCOMPATIBLE MATERIALS.  
STORE IN A COOL DRY PLACE; STORE IN A TIGHTLY CLOSED CONTAINER; KEEP AWAY FROM SOURCES OF IGNITION

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### 10. STABILITY AND REACTIVITY

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS; STRONG ACIDS  
CONDITIONS TO AVOID: NONE KNOWN  
CONTAMINATION

### 11. TOXICOLOGICAL INFORMATION

**COMPONENT TOXICOLOGY DATA (NIOSH)****CHEMICAL NAME**

ETHANOL, 2,2'-IMINODI-

**LD50/LC50**

Oral LD50 Rat : 620 uL/kg; Oral LD50  
Mouse : 3300 mg/kg; Dermal LD50 Rabbit  
: 7640 uL/kg

ETHANOL, 2,2',2''-NITRILOTRI-

Oral LD50 Rat : 4920 uL/kg; Oral LD50  
Mouse : 5846 mg/kg; Dermal LD50 Rabbit  
: >20 mL/kg

### 12. ECOLOGICAL INFORMATION

OVERVIEW: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO THE ECOLOGY.  
MOBILITY: NO DATA  
PERSISTENCE: NO DATA  
DEGRADABILITY: NO DATA

### 13. DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION: SPENT OR DISCARDED MATERIAL MAY BE A HAZARDOUS WASTE.  
DISPOSAL METHODS: DISPOSE OF IN A LANDFILL. DISPOSAL IS NOT LIKELY TO BE  
REGULATED.

### 14. TRANSPORT INFORMATION

SHIPPING BASIC DESCRIPTION: DOT & IATA: NOT RESTRICTED

### 15. REGULATORY INFORMATION

TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY  
OF EXISTING CHEMICAL SUBSTANCES.  
REGULATED CHEMICALS: