



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	LD50/LC50
ETHANOL, 2,2'-IMINODI-	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: