

PHILIPP BROTHERS CHEMICALS, INC. <\_>  
 CP/PHIBROCHEM <\_> ONE PARKER PLAZA  
 CP CHEMICALS, INC. <\_> 14TH FLOOR  
 PHIBRO-TECH, INC. <\_> FORT LEE, N.J. 07024  
 AGTROL CHEMICAL PRODUCTS <\_> (201)944-6020  
 KOFFOLK, INC. <\_> (803)481-8528  
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\*\*\*\*\* 24 HOUR EMERGENCY CONTACT: CHEMTREC (800)424-9300 \*\*\*\*\*  
 DATE: 10/07/96 SUPERSEDES:

01 PRODUCT IDENTIFICATION

***** N.F.P.A. *****	
DEGREE OF HAZARD	EMERGENCY HAZARD RATING
4 = EXTREME	HEALTH < 1 >
3 = HIGH	FIRE < 1 >
2 = MODERATE	REACTIVITY < 0 >
1 = SLIGHT	SPECIFIC HAZARD < >
0 = INSIGNIFICANT	

FORMULA CAS NO.: NOT APPLICABLE TO MIXTURES  
 TRADE NAME: AMPROL 25%  
 FORMULA: NA MOLECULAR WT.: NE  
 SYNONYMS: NONE

02 HAZARDOUS INGREDIENTS

INGREDIENTS (CAS NO.)	WT PCT (APPROX)	PEL		TLV(TWA)	
		MG/M3	PPM	MG/M3	PPM

AMPROLIUM 25.0 NE NE  
 (121-25-5)  
 NON-HAZARDOUS INGREDIENTS 75.0  
 NE: NOT ESTABLISHED  
 THE TLV'S ARE GIVEN FOR GUIDANCE; LOCAL APPLICABLE REGULATIONS SHOULD ALWAYS BE FOLLOWED. INGREDIENTS ARE THOSE PRESENT AT 1 % OR GREATER,

OR AT 0.1 % OR GREATER IF LISTED AS POTENTIAL CARCINOGENS BY  
OSHA/IARC/NTP. PROPRIETARY INGREDIENT IDENTITIES ARE AVAILABLE IN  
ACCORDANCE WITH 29 CFR 1910.1200.

CARCINOGEN: NTP - NO; IARC - NO; OSHA - NO;  
EPA - NO

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03 PHYSICAL AND CHEMICAL CHARACTERISTICS

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BOILING POINT, 760 MM HG (DEG C): NA  
MELTING/FREEZING POINT (DEG C): NA  
SPECIFIC GRAVITY (WATER = 1): NA  
VAPOR PRESSURE (MM HG): NA  
VAPOR DENSITY (AIR = 1): NA  
WATER SOLUBILITY (% BY WT): SOLUBLE, AMPROLIUM ONLY  
VOLATILES (% BY WT): NA  
EVAPORATION RATE (BUTYL ACETATE = 1): NA  
PH OF 25% SLURRY: 3.0-4.5  
APPEARANCE/ODOR: TAN, FIBROUS MEAL, NON-DUSTY. SLIGHT CHARACTERISTIC  
ODOR.  
NA = NOT APPLICABLE, NE = NOT ESTABLISHED, D = DECOMPOSES

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04 PHYSICAL HAZARD DATA

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FLASH POINT (DEG C): NA TEST METHOD:  
FLAMMABLE LIMITS (% BY VOL): NA  
AUTOIGNITION TEMP. (DEG C): NE  
EXTINGUISHING MEDIA: DRY CHEMICALS, AND WATER SPRAY.  
SPECIAL FIRE FIGHTING PROCEDURES: WEAR POSITIVE-PRESSURE,  
SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. AVOID  
DUSTY CONDITIONS.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: AVOID DISPERSION OF DUST IN AIR  
TO REDUCE POTENTIAL EXPLOSION HAZARD.  
NA: NOT APPLICABLE

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05 REACTIVITY DATA

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THERMAL STABILITY: STABLE UNDER NORMAL CONDITIONS OF STORAGE AND USE.

INCOMPATIBILITY: STRONG ACIDS AND BASES.

CONDITIONS TO AVOID: NONE KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: IN A FIRE CARBON MONOXIDE AND CARBON DIOXIDE MAY BE RELEASED. TOXIC ORGANIC CHLORIDES, HCL, OXIDES OF NITROGEN AND SMOKE CAN BE GENERATED.

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06 HEALTH HAZARD INFORMATION

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EFFECTS OF OVEREXPOSURE:

SYMPTOMS OF INGESTION: ESSENTIALLY NON-TOXIC.

SYMPTOMS OF INHALATION: VAPORS CAN BE IRRITATING TO THE RESPIRATORY SYSTEM AND LUNGS. CAN CAUSE AN ASTHMA-LIKE ALLERGIC REACTION.

SYMPTOMS OF SKIN CONTACT: MAY CAUSE SKIN IRRITATION AND ALLERGIC REACTION.

SYMPTOMS OF EYE CONTACT: CAUSES EYE IRRITATION.

CHRONIC EXPOSURE: NE

TOXICITY DATA:

ORAL TOXICITY: LD50: 6.170 G/KG (MOUSE)

DERMAL TOXICITY: (RABBIT)

EYE TOXICITY: (RABBIT)

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07 EMERGENCY AND FIRST AID PROCEDURES

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EYE CONTACT: IMMEDIATELY, FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 5 MINUTES WHILE HOLDING EYELIDS APART. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT: WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION OR RASH DEVELOPS.

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING IS DIFFICULT.

INGESTION: GIVE 1 OR 2 GLASSES OF WATER TO DRINK AND INDUCE VOMITING.

NOTES TO PHYSICIAN: ASTHMA-LIKE CONDITIONS MAY BE AGGRAVATED.

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08 INDUSTRIAL HYGIENE AND OCCUPATIONAL CONTROL PROCEDURES

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VENTILATION: LOCAL EXHAUST AND GENERAL VENTILATION ARE RECOMMENDED IN CONFINED AREAS. PROPER VENTILATION SHOULD BE MAINTAINED AT ALL TIMES TO PREVENT HIGH DUST CONCENTRATIONS.

RESPIRATORY PROTECTION: DUST RESPIRATOR IS RECOMMENDED IN CONFINED AREAS.

EYE PROTECTION: SAFETY GLASSES OR CHEMICAL SAFETY GOGGLES.

SKIN PROTECTION: RUBBER BOOTS AND HEAVY RUBBER GLOVES WITH PROTECTIVE CLOTHING.

PERSONAL HYGIENE: WASH THOROUGHLY AFTER HANDLING.

AN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES SHOULD BE MAINTAINED IN THE WORK AREA.

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09 SAFE HANDLING, STORAGE, AND USE PRECAUTIONS

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PRECAUTIONARY MEASURES: AVOID CONTACT WITH SKIN AND EYES. WASH THOROUGHLY AFTER HANDLING.

STORAGE AND HANDLING: STORE IN WELL CLOSED CONTAINERS, IN A COOL, DRY PLACE.

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10 ENVIRONMENTAL AND DISPOSAL PROCEDURES

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SPILL/LEAK CLEAN-UP PROCEDURES: SHOVEL-UP THE POWDER AND TRANSFER INTO A WASTE CONTAINER. AVOID CONTACT OF SPILLED MATERIALS AND RUNOFF WITH SOIL AND SURFACE WATERWAYS.

DISPOSAL METHOD: DISPOSE OF OR TREAT ALL SPILL RESIDUES AND  
CONTAMINATED SOIL FOLLOWING FEDERAL, STATE, AND LOCAL REGULATIONS.  
SUPERFUND REPORTABLE QUANTITY(RQ): NA  
HAZARDOUS WASTE NO.: NA  
SARA TITLE III: NA  
(SECTION 313)  
CANADIAN (WHMIS) LIST: NOT LISTED  
NEW JERSEY LIST: NOT LISTED

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11 TRANSPORTATION DATA

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DOT SHIPPING NAME: AMPROL 25%  
DOT HAZARD CLASS: NOT DOT REGULATED  
HAZARDOUS INGREDIENTS: NONE  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE  
LABEL: NONE

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12 ADDITIONAL WARNINGS AND INFORMATION

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NON-TOXIC TO AQUATIC ORGANISMS.

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ALL INFORMATION PRESENTED HEREIN IS GIVEN IN GOOD FAITH AND IS BASED  
ON SOURCES AND TESTS CONSIDERED TO BE RELIABLE BUT CANNOT BE  
GUARANTEED. IT IS THE USER'S FULL RESPONSIBILITY TO ACCEPT RISK FOR  
THE SAFETY, TOXICITY, HANDLING, STORAGE, AND USE OF THE PRODUCT AS  
WELL AS TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR A SPECIFIC  
PURPOSE. WE MAKE NO WARRANTY AS TO THE RESULTS TO BE OBTAINED IN  
USING THE PRODUCT; THEREFORE ALL RISKS MUST BE ASSUMED BY THE USER.