

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
 <_>

***** 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 < 0 >
2 = MODERATE	REACTIVITY < 0 >
1 = SLIGHT	SPECIFIC HAZARD < >
0 = INSIGNIFICANT	

FORMULA CAS NO.: 121-25-5
 TRADE NAME: AMPROL 9.6% SOLUTION
 FORMULA: C14H19CLN4 MOLECULAR WT.: 278.8
 SYNONYMS: AMPROLIUM SOLUTION

02 HAZARDOUS INGREDIENTS

INGREDIENTS (CAS NO.)	WT PCT (APPROX)	PEL		TLV(TWA)	
		MG/M3	PPM	MG/M3	PPM
AMPROLIUM (121-25-5)	9.6	NE		NE	

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

03 PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT, 760 MM HG (DEG C): NE
MELTING/FREEZING POINT (DEG C): NE
SPECIFIC GRAVITY (WATER = 1): 1.024
VAPOR PRESSURE (MM HG): NE
VAPOR DENSITY (AIR = 1): NE
WATER SOLUBILITY (% BY WT): COMPLETELY SOLUBLE IN COLD H2O
VOLATILES (% BY WT): NE
EVAPORATION RATE (BUTYL ACETATE = 1): NE
PH OF 25% SLURRY: 2.5-3.0
APPEARANCE/ODOR: CLEAR, LIGHT AMBER SOLUTION.
NA = NOT APPLICABLE, NE = NOT ESTABLISHED, D = DECOMPOSES

04 PHYSICAL HAZARD DATA

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.
UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE KNOWN
NA: NOT APPLICABLE

05 REACTIVITY DATA

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.

06 HEALTH HAZARD INFORMATION

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 EVENTUALLY AN ALLERGIC REACTION.

SYMPTOMS OF EYE CONTACT: CAUSES EYE IRRITATION.

CHRONIC EXPOSURE: NE

TOXICITY DATA:

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

DERMAL TOXICITY: (RABBIT)

EYE TOXICITY: (RABBIT)

07 EMERGENCY AND FIRST AID PROCEDURES

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.

08 INDUSTRIAL HYGIENE AND OCCUPATIONAL CONTROL PROCEDURES

VENTILATION: LOCAL EXHAUST AND GENERAL VENTILATION ARE RECOMMENDED IN CONFINED AREAS.

RESPIRATORY PROTECTION: MIST 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.

09 SAFE HANDLING, STORAGE, AND USE PRECAUTIONS

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.

10 ENVIRONMENTAL AND DISPOSAL PROCEDURES

SPILL/LEAK CLEAN-UP PROCEDURES: DIKE LARGE SPILLS 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

11 TRANSPORTATION DATA

DOT SHIPPING NAME: AMPROL 9.6% SOLUTION
DOT HAZARD CLASS: NOT DOT REGULATED
HAZARDOUS INGREDIENTS: NONE
IDENTIFICATION NUMBER: NONE
PACKING GROUP: NONE
LABEL: NONE

12 ADDITIONAL WARNINGS AND INFORMATION

NON-TOXIC TO AQUATIC ORGANISMS.

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.