

INDUSTRIAL RADN SURV PROTOCOL NO. 27-43-E2HU-94, 10 JAN-15 APR 94

APPENDIX D
MATERIAL SAFETY DATA SHEET



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HEALTH**1****FLAMMABILITY****1****REACTIVITY****1****PERSONAL PROTECTION****B**C 1981 MPCL
Data Revision 1 Printed by LABELMASTER, CHICAGO, IL

PPO CASRN 92-71-7

bis-MSB CASRN 13280-61-0

PACKARD INSTRUMENT CO., INC. • 2200 WARRENVILLE ROAD • DOWNERS GROVE, IL 60515

PREPARER: J.W. v.d Weele

DATE: 02/90

REVISION #: A

CHEMICAL NAME: Blend of alkylnaphtalenes with scintillators PPO and bis-MSB and emulsifiers.

SYNONYMS: None

CHEMICAL FAMILY: N. A.

FORMULA: N. A.

MOLECULAR WEIGHT: N. A.

TRADE NAME AND SYNONYMS: ULTIMA GOLD™ XP

PHYSICAL DATA

BOILING POINT, 760 mm. Hg	554-570°F/290-299°C	FREEZING POINT	-22 °F/-30 °C
SP. GRAVITY (H ₂ O = 1)@20°C	0.960	VAPOR PRESSURE AT 20°C	2.8 mm Hg
EVAPORATION RATE (BUTYL ACETATE = 1)	N.D.	SOLUBILITY IN WATER, % by wt. at 20°C	Very slight 0.01
% VOLATILES BY VOLUME	< 1 %	VAPOR DENSITY (AIR = 1)	N.D.

APPEARANCE AND ODOR: Clear, blue-violet fluorescent liquid with mild odor.

HAZARDOUS INGREDIENTS

MATERIAL	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDATIONS
None				

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	306°F/152 °C Tag closed cup	AUTOIGNITION TEMPERATURE	~932°F/~500 °C
FLAMMABLE LIMITS IN AIR, % by volume	LOWER	UPPER	

EXTINGUISHING
MEDIA

Dry chemical, carbon dioxide or foam.

SPECIAL FIRE FIGHTING
PROCEDURES

None

UNUSUAL FIRE AND
EXPLOSION HAZARDS

None

EMERGENCY PHONE NUMBERS

DAY: 708 / 969-6000

NIGHT: D. MRKVICKA

312/858-0684

800/323-5891

708/858-0684

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts.

N.D. - NOT DETERMINED

N.A. - NOT APPLICABLE

< LESS THAN

> GREATER THAN

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (ACUTE AND CHRONIC)	Prolonged contact may cause slight irritation of eyes, skin and mucous membranes. May cause nausea diarrhea or vomiting if ingested. No chronic effects are known.		
ROUTE(S) OF ENTRY	INHALATION <input type="checkbox"/>	SKIN <input type="checkbox"/>	INGESTION <input type="checkbox"/>
EMERGENCY AND FIRST AID PROCEDURES	Remove to fresh air. Wash affected areas with soapy water. Flush eyes with running water for 15 minutes and seek medical attention if irritation persists.		
CARCINOGENICITY	N.T.P. <input type="checkbox"/>	I.A.R.C. MONOGRAPHS <input type="checkbox"/>	OSHA <input type="checkbox"/>
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE	None		

REACTIVITY DATA

STABILITY	CONDITIONS TO AVOID	None
UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>		
INCOMPATIBILITY (materials to avoid)	Strong oxidizers	
HAZARDOUS DECOMPOSITION PRODUCTS	None	
HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID	None
May Occur <input type="checkbox"/> Will not Occur <input checked="" type="checkbox"/>		

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Remove ignition sources Absorb small spills with paper, diatomaceous earth or equivalent and collect by sweeping.
WASTE DISPOSAL METHOD	Sanitary sewer or incinerate in accordance with government regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	No respirator required.			
VENTILATION	LOCAL EXHAUST	None	SPECIAL	None
	MECHANICAL (general)	Satisfactory	OTHER	None
PROTECTIVE GLOVES	Chemical proof	EYE PROTECTION	Splash proof safety goggles	
OTHER PROTECTIVE EQUIPMENT	None			
HYGIENIC PRACTICES	No eating, drinking or smoking in area. Wash after use.			

SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	WARNING! Contains the mildly irritating solvent alkyl naphthalene. Avoid contact with eyes and skin, prolonged breathing of vapor. Avoid sparks and open flame.
OTHER HANDLING AND STORAGE CONDITIONS	Keep tightly closed. Protect from light. Store in a cool dry place with adequate ventilation.