



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ardox Fluorescent Dye		DATE: August 1, 2011	
PRODUCT NUMBER(S): 1-0048 (1003866)			
TRADE NAME: Ardrox P133D Penetrant GENERAL USE: Penetrant dye. CHEMICAL FAMILY: Solvents blend. PRODUCT DESCRIPTION: Yellow-green liquid with mild odor.			
MANUFACTURED FOR: Safariland LLC		DATE PREPARED: August 1, 2011	
		SUPERSEDES: September 12, 2008	
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway		TELEPHONE NUMBER FOR INFORMATION / Customer Service 800-347-1200	
(CITY, STATE AND ZIP CODE) Jacksonville, FL 32218		COUNTRY USA	
		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Irritant. Targets blood, absorbed through skin and toxic by ingestion.

POTENTIAL HEALTH EFFECTS

INHALATION:
Capable of causing irritation and breathing difficulty.

SKIN:
Absorbed through skin, may cause delayed onset dermatitis and irritation, dryness and cracking.

EYES:
Irritation and reddening.

INGESTION:
Gastrointestinal irritation, vomiting, and diarrhea. May cause aspiration pneumonia if vomited.

CARCINOGENICITY:

NTP? No	IARC MONOGRAPHS? No	OSHA REGULATED? No
CALIFORNIA, Prop.65? No	ESIS? Yes CAS# 64742-46-7 is listed as Carcinogenic.	

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Petroleum Distillate	50-60	64742-46-7	265-148-2	T+	R45
Glycol Ethoxylate	10-20	84133-50-6	Not referenced.	None	None
Polyglycol Ether	10-15	9016-45-9	500-024-6	None	None
Diisodecyl Phthalate	5-10	26761-40-0	247-977-1	None	None

Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient.

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

EYES:
Rinse with water for at least 15 minutes. Get medical attention.

SKIN:
Wash thoroughly with soap and water. Use emollient for irritation. Seek medical attention.

INGESTION:
Do not induce vomiting unless directed by medical personnel. Aspiration pneumonia risk exists with this product. If vomiting occurs spontaneously keep victims head below waist to avoid aspiration. Seek medical help immediately.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
 May be combustible at elevated temperatures. Flash Point >200°F. LEL=1.1% UEL=6%

EXTINGUISHING MEDIA:
 Dry chemical, water spray, fog, or foam.

FIRE FIGHTING PROCEDURES:
 Do not use water jet for large fire. Water may be used to cool containers however.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Product misted as a fine aerosol becomes immediately flammable when exposed to open flame.

HAZARDOUS COMBUSTION PRODUCTS:
 Carbon Monoxide, Soot, Thick Smoke, Carbon Dioxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 Absorb with inert material. Place into appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
 Avoid prolonged contact with eyes, skin, and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep containers tightly closed and store in a cool, well ventilated area.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Petroleum Distillate	NE	NE	NE	NE	NE	NE	NE	NE
Glycol Ethoxylate	NE	NE	NE	NE	NE	NE	NE	NE
Polyglycol Ether	NE	NE	NE	NE	NE	NE	NE	NE
Diisodecyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
 Under fire conditions wear a NIOSH/MSA or European EN-149 approved organic vapor respirator or SCBA. Provide exhaust ventilation as needed to restrict airborne concentrations.

PROTECTIVE GLOVES:
 Impervious neoprene or nitrile gloves.

EYE PROTECTION:
 Safety Glasses with side shields.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
 Impervious clothing. Wear rubber boots in case of a large spill.

WORK / HYGIENIC PRACTICES:
 Wash thoroughly after handling, before eating or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Yellow-green liquid with mild odor.	VAPOR PRESSURE >0.1kPa @ 20°C
VOC NA Volatility Minimal	SPECIFIC GRAVITY (WATER = 1) 0.871
BOILING POINT / BOILING RANGE 240°F	SOLUBILITY IN WATER Insoluble.
FLASH POINT >200°F	VISCOSITY NR
FLAMMABLE LIMITS LEL: 1.10% UEL: 6.00%	VAPOR DENSITY (AIR = 1) 2.69
AUTO-IGNITION TEMPERATURE NR	EVAPORATION RATE Water = 1) <1

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SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE **X** **CONDITIONS TO AVOID:**
 Excessive heat, incompatible materials.

INCOMPATIBILITY (MATERIALS TO AVOID):
 Oxidizing and reducing agents, organic materials, metals, acids, alkalis.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
 Carbon Monoxide, Soot, Thick Smoke, Carbon Dioxide.

HAZARDOUS POLYMERIZATION: Will not occur. **CONDITIONS TO AVOID:** None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Petroleum Distillate	64742-46-7	NE	NE
	265-148-2		
Glycol Ethoxylate	84133-50-6	NE	NE
	Not Referenced.		
Polyglycol Ether	9016-45-9	Oral, rat: LD50 =1310 mg/kg.	NE
	500-024-6		
Diisodecyl Phthalate	26761-40-0	Oral, Rat LD50= 64000 mg/kg LD50 Dermal - rabbit - > 3,160 mg/kg CHRONIC EXPOSURE - TERATOGEN Rat Dose: 10 GM/KG Fetotoxicity - Musculoskeletal system.	NE
	247-977-1		
Product Toxicological Data		Acute Oral Rat LD50= 1310 mg/kg	NE
		Acute Dermal Rabbit LD50=1869 mg/kg.	

SECTION 12 - ECOLOGICAL INFORMATION

No information is available for this blended product. The petroleum distillates ingredients however are known to be non-biodegradable and should therefore not be discharged to watercourses. Incineration of the product at a properly permitted facility is the preferred method of disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Incineration of the product at a properly permitted facility compliant with all applicable Local, State, and Federal ordinances is the preferred method of disposal. Non-hazardous waste. This product is not a RCRA characteristic waste as supplied. Observe local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated for transport purposes.
DOT HAZARD CLASS / Pack Group: Not regulated. **IATA HAZARD CLASS / Pack Group:** Not regulated.
REFERENCE: 49CFR **IMDG HAZARD CLASS:** Not regulated.
UN / NA IDENTIFICATION NUMBER: NA **RID/ADR Dangerous Goods Code:** NA
LABEL: None applicable. **UN TDG Class / Pack Group:** NA
HAZARD SYMBOLS: **Hazard Identification Number (HIN):** NA

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):	Ingredients listed.		
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	No	Chronic Health:	Yes
Fire:	No	Sudden Release of Pressure:	No
Reactive:	No		

313 REPORTABLE INGREDIENTS:	None reportable.		
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	No RQ's listed.		
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	None.		
State Right to Know: Diisodecyl phthalate: NJ,PA; Polyglycol ether (CAS#68412-54-4): NJ, PA , CAS#75-21-8: MA;			
CCPR (Canadian Controlled Products Regulations):	None.		
CIDL (Canadian Ingredient Disclosure List):	Listed.		
CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Listed on CDSL.		
EINECS (European Inventory of Existing Commercial Chemical Substances):	Glycol ethoxylate not referenced.		


WGK Water Quality Index: **1**

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R22: Harmful if swallowed.		S2: Keep out of the reach of children. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16 - OTHER INFORMATION

Legend:			
N/A = Not Applicable	N/D = Not Determined	N/E = Not Established	N/R = Not Reported
HMIS HAZARD RATINGS	HEALTH:	2	0 = INSIGNIFICANT
	FLAMMABILITY:	1	1 = SLIGHT
	PHYSICAL HAZARD:	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	C	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:
Revised to EU protocols 8/1/2011 supersedes 9/15/2008 issue. -JTV

<p>MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com</p>	
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.