



# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME:</b> Cyanowand CA Cartridge		<b>DATE:</b> August 01, 2011	
<b>PRODUCT NUMBER:</b> 1-6060 (1004218, 1-6062 (1004219), 1-6063 (1011747)			
<b>TRADE NAME:</b> Cyanowand CA Cartridge <b>GENERAL USE:</b> Latent print development. <b>CHEMICAL FAMILY:</b> Cyanoacrylate glue. <b>PRODUCT DESCRIPTION:</b> Clear, colorless liquid with sharp, irritating odor.			
<b>MANUFACTURER:</b> Safariland LLC	<b>DATE PREPARED:</b> August 1, 2011		
	<b>SUPERSEDES:</b> September 17, 2008		
<b>ADDRESS (NUMBER, STREET, P.O. BOX):</b> 13386 International Parkway		<b>TELEPHONE NUMBER FOR INFORMATION / Customer Service:</b> 800-347-1200	
<b>(CITY, STATE AND ZIP CODE):</b> Jacksonville, FL. 32218	<b>COUNTRY:</b> USA	<b>CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER:</b>  1-800-255-3924 North America Toll Free 01-813-248-0585 International	

## SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
 CAUTION! MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT. WILL IMMEDIATELY BOND SKIN. PRODUCT GENERATES HEAT UPON BONDING. LACHRYMATOR..

### POTENTIAL HEALTH EFFECTS

**INHALATION:**  
 May cause irritation to the respiratory tract, producing non-allergic asthma symptoms in susceptible individuals. Symptoms may include coughing and shortness of breath.

**SKIN:**  
 Will bond skin immediately upon contact. Large quantities will cause burns.

**EYES:**  
 May cause irritation, redness and pain. Eye contact may cause conjunctivitis.

**INGESTION:**  
 It is difficult if not impossible to ingest product, as material will immediately polymerize and bond to oral structures. Product will eventually loosen over several hours, and cured product is not harmful; Cured product should not be swallowed, though.

**CARCINOGENICITY:**  
 NTP? **NO** IARC MONOGRAPHS? **NO** OSHA REGULATED? **NO**  
 CALIFORNIA, Prop.65? **NO**

## SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Ethyl Cyanoacrylate	30-40	7085-85-0	230-391-5	Xi	R36/37/38
Poly(methylmethacrylate)	1-5	9011-14-7	NA	None	None

Notes:

## SECTION 4 - FIRST AID MEASURES

**INHALATION:**  
 Remove victim to fresh air. Get medical attention for any breathing difficulty.

**EYES:**  
 Flush with water. If eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action within 1-4 days without residual damage. Do not try to open the eyes by manipulation.

**SKIN:**  
 Soak in warm, soapy water. Product will come loose from the skin after several hours. Cured material does not present a health hazard.

**INGESTION:**  
 Not a likely route of exposure. If lips are bonded, apply lots of warm water and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll the lips apart. Do not pull the lips with direct opposing action.

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** Cyanowand CA Cartridge  
**PRODUCT NUMBER:** 1-6060 (1004218, 1-6062 (1004219), 1-6063 (1011747) **DATE:** August 01, 2011

## SECTION 5 - FIRE FIGHTING MEASURES

**GENERAL HAZARDS:**  
 Product is combustible at elevated temperatures. Can react with water to generate heat. Heating product will generate toxic and irritating fumes.

**EXTINGUISHING MEDIA:**  
 Use foam, dry chemical, or Carbon Dioxide.

**FIRE FIGHTING PROCEDURES:**  
 Emergency responders should wear bunker gear and NIOSH or European EN-149 organic vapor respirators and avoid exposure to decomposition products (29CFR 1910.156). Proper eye and skin protection should also be used.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
 Ignition may produce dense black smoke. This product may contain residual volatiles which are toxic and irritating.

**HAZARDOUS COMBUSTION PRODUCTS:**  
 Combustion produces major amounts of Carbon Monoxide, Carbon Dioxide, Smoke, Soot and minor amounts of Nitrogen oxides and Sulfur oxides.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**  
 Use water to polymerize spilled material. Scrape up cured material and dispose.

## SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**  
 Do not store above 75°F in order to maintain product life. Keep containers tightly closed and away from moisture. Keep away from oxidizing agents.

## 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	STEL ppm	PEL mg/m3
<b>Ethyl Cyanoacrylate</b>	<b>NE</b>		<b>NE</b>		<b>NE</b>		<b>NE</b>	
<b>Poly(methylmethacrylate)</b>	<b>NE</b>		<b>NE</b>		<b>NE</b>		<b>NE</b>	

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**  
 Not required in unconfined or well ventilated areas. Use NIOSH or E.U. EN149 standard approved vapor respirators for areas where general ventilation is not possible.

**PROTECTIVE GLOVES:**  
 Gloves are advised to avoid bonding of skin.

**EYE PROTECTION:**  
 Safety glasses or splash goggles for prolonged use.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**  
 Eye wash station in the event of eye contact with material.

**WORK / HYGIENIC PRACTICES:**  
 Employ good, industrial hygiene practices by using adequate ventilation and personal protection, as needed. Where dust cannot be controlled, personal respiratory protection should be employed.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE AND ODOR</b> Clear, colorless liquid with sharp, irritating odor.	<b>VAPOR PRESSURE</b> < 0.2 mm Hg
<b>% VOLATILE</b> 94%	<b>SPECIFIC GRAVITY (WATER = 1)</b> 1.05
<b>MELTING POINT</b> >300°F (>149°C)	<b>SOLUBILITY IN WATER</b> Polymerized by Water.
<b>FLASH POINT</b> 150-200°F (66-93°C)	<b>VISCOSITY</b> NA
<b>FLAMMABLE LIMITS</b> LEL: NE UEL: NE	<b>VAPOR DENSITY (AIR = 1)</b> 3
<b>AUTO-IGNITION TEMPERATURE</b> NE	<b>EVAPORATION RATE (WATER = 1)</b> NE

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** Cyanowand CA Cartridge  
**PRODUCT NUMBER:** 1-6060 (1004218, 1-6062 (1004219), 1-6063 (1011747) **DATE:** August 01, 2011

## SECTION 10 - STABILITY AND REACTIVITY

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

**INCOMPATIBILITY (MATERIALS TO AVOID):**  
Strong oxidizers such as chlorates, bromates, and nitrates.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**  
Major amounts of Carbon Monoxide, Carbon Dioxide, Smoke, Soot and minor amounts of Nitrogen and Sulfur oxides.

**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)
Ethyl Cyanoacrylate	7085-85-0 230-391-5	NR	NR
Poly(methylmethacrylate)	9011-14-7 NA	NR	NR

## SECTION 12 - ECOLOGICAL INFORMATION


No ecological information is available for this product. Given the nature of thiocyanates, it should be assumed that this product is harmful to aquatic life. Therefore, do not release this product into sewers or waterways.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:**  
Dispose of product waste as well as containers in accordance with all local, state and federal regulations.

## SECTION 14 - TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** Aviation Regulated Liquids, n.o.s. (Ethyl Cyanoacrylate), Not Regulated (Ground)

<p><b>DOT HAZARD CLASS / Pack Group:</b> None  <b>REFERENCE:</b> 49 CFR  <b>UN / NA IDENTIFICATION NUMBER:</b> None  <b>LABEL:</b> Miscellaneous 9  <b>HAZARD SYMBOLS:</b></p> <div style="text-align: center;">  </div>	<p><b>IATA HAZARD CLASS / Pack Group:</b> 9/ III  <b>IMDG HAZARD CLASS:</b> 9  <b>RID/ADR Dangerous Goods Code:</b> UN 3334  <b>UN TDG Class / Pack Group:</b> 9 / III  <b>Hazard Identification Number (HIN):</b> 90</p>
---	---

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.

## SECTION 15 - REGULATORY INFORMATION

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

**313 REPORTABLE INGREDIENTS:** No  
**CERCLA (USA - Comprehensive Response Compensation and Liability Act):** Not listed.  
**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:** Not listed.  
**CPR (Canadian Controlled Products Regulations):** Not listed.  
**IDL (Canadian Ingredient Disclosure List):** Listed.  
**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):** Components listed on DSL.  
**EINECS (European Inventory of Existing Commercial Chemical Substances):** Referenced.  
**WGK Water Quality Index:** 2

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R36/37/38: Irritating to eyes, respiratory system and skin.	 Irritant	S23 Do not breathe gas/fumes/vapour/spray. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

# MATERIAL SAFETY DATA SHEET

<b>PRODUCT NAME:</b>	Cyanowand CA Cartridge	<b>DATE:</b>	August 01, 2011
<b>PRODUCT NUMBER:</b>	1-6060 (1004218, 1-6062 (1004219), 1-6063 (1011747)		

## SECTION 16 - OTHER INFORMATION

**Legend:** NA = Not Applicable, NE = Not Established, ND = Not Determined, NR = Not Reported.

HMIS HAZARD RATINGS	HEALTH: <span style="float: right;">1</span> FLAMMABILITY: <span style="float: right;">2</span> PHYSICAL HAZARD: <span style="float: right;">1</span> PERSONAL PROTECTIVE EQUIPMENT: <span style="float: right;">B</span>	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
---------------------	--	--

**REVISION SUMMARY:**  
 Revised for E.U. protocols 8/1//2011 supersedes previous issue ... LB/JTV

**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



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.