

# MATERIAL SAFETY DATA SHEET

LANIER  
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 ATLANTA, GA 30345-2979  
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SUPERSEDES: 78696903349

DPI I.D. NUMBER: U78803592456

ISSUED: AUGUST 1986  
 DOCUMENT NO: FX-002  
 DUNS NO: 150634004

**1. PRODUCT IDENTIFICATION**

CHEMICAL FAMILY:  
 N/A

TRADE NAME:  
 Type 441 VRC Developer

DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME:  
 N/A

DEPARTMENT OF TRANSPORTATION HAZARD CLASS:  
 N/A

**2. INGREDIENTS**

	PERCENT	CAS NO.	EXPOSURE LIMITS	SOURCE*
Iron Powder	90.0 - 100.0	7439-89-6	N/D	E
Bisphenol A Epoxy Resin	1.0 - 10.0	N/D	N/D	E

\* SOURCE OF EXPOSURE LIMIT DATA:

- A. ACGTH THRESHHOLD LIMIT VALUES
- C. LANIER GUIDELINES
- E. NONE ESTABLISHED

- B. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
- D. MANUFACTURER RECOMMENDED GUIDELINES

N/A = NOT APPLICABLE

N/D = NOT DETERMINED

**3. PHYSICAL DATA**

BOILING POINT: N/A	°F	SOLUBILITY IN H2O: Nil
VAPOR PRESSURE: N/A	AT	SPECIFIC GRAVITY (H2O=1): > 1
VAPOR DENSITY: N/A	(AIR = 1)	pH: N/A
EVAPORATION RATE: N/A	(ETHER = 1)	VISCOSITY: N/A
% VOLATILE: N/A		

APPEARANCE AND ODOR: Fine black powder. Slight odor.

**4. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (TEST METHOD):  
 N/A

FLAMMABILITY LIMITS:  
 LEL = N/A UEL = N/A

EXTINGUISHING MEDIA:  
 Foam, CO<sub>2</sub>, Water

SPECIAL FIRE FIGHTING PROCEDURES:  
 None

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 None

**5. REACTIVITY DATA**

STABILITY: STABLE  UNSTABLE  HAZARDOUS POLYMERIZATION: MAY OCCUR  MAY NOT OCCUR   
 INCOMPATIBILITY - MATERIALS TO AVOID:  
 Strong oxidizers.

CONDITIONS TO AVOID:

HAZARDOUS DECOMPOSITION PRODUCTS:  
 None

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6. ENVIRONMENTAL INFORMATION		
SPILL RESPONSE: (OBSERVE ALL PRECAUTIONS IN SECTION 7): Vacuum or sweep up spill. Powder left on floor may cause slippery conditions.		
RECOMMENDED DISPOSAL: Dispose of water products in a sanitary landfill in accordance with applicable regulations.		
ENVIRONMENTAL DATA: N/D		
7. PRECAUTIONARY INFORMATION		
Avoid eye contact. Avoid prolonged or repeated skin contact. Store in cool, dry place.		
8. HEALTH HAZARD DATA	9. SUGGESTED FIRST AID	
EYE CONTACT:  Dust may cause eye irritation. (The product caused minimal eye irritation when tested in laboratory animals.)  SKIN CONTACT:  No adverse health effects are expected.  INHALATION:  Dust may cause respiratory irritation.  IF SWALLOWED:  No adverse health effects are expected.	In case of eye contact, flush eyes with plenty of water and contact a physician.  N/A  If respiratory irritation or other symptoms occur, move to fresh air.  N/A	

THE INFORMATION ON THIS DATA SHEET REPRESENTS OUR CURRENT DATA AND BEST OPINION AS TO THE PROPER USE IN HANDLING OF THIS PRODUCT UNDER NORMAL CONDITIONS. USING THE PRODUCT WHICH IS NOT IN CONFORMANCE WITH THIS DATA SHEET OR WHICH INVOLVES USING THE PRODUCT IN COMBINATION WITH ANY OTHER PRODUCT OR ANY PROCESS IS THE RESPONSIBILITY OF THE USER.