

# MATERIAL SAFETY DATA SHEET

LANIER  
 2300 PARKLAKE DRIVE, NE  
 ATLANTA, GA 30345-2979  
 EMERGENCY TELEPHONE:  
 (404) 621-1395 (8am-6pm)  
 (800) 333-2679 (6pm-8am)

SUPERSEDES: 78696922141

ISSUED: AUGUST 1986  
 DOCUMENT NO: FX-005  
 DUNS NO: 150634004

DPI I.D. NUMBER: U78803592480

**1. PRODUCT IDENTIFICATION**

CHEMICAL FAMILY: Isoparaffinic Hydrocarbons	TRADE NAME: Type 447 Toner Concentrate
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DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME:  
N/A

DEPARTMENT OF TRANSPORTATION HAZARD CLASS:  
N/A

2. INGREDIENTS	PERCENT	CAS NO.	EXPOSURE LIMITS	SOURCE*
Isoparaffinic Hydrocarbons	90.0	64742-48-9	300 ppm	E
Carbon Black	1.0 - 3.0	1333-86-4	3.5 MG/M <sup>3</sup>	E

\* SOURCE OF EXPOSURE LIMIT DATA:  
 A. ACGTH THRESHOLD LIMIT VALUES                      B. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT  
 C. LANIER GUIDELINES    D. MANUFACTURER RECOMMENDED GUIDELINES  
 E. NONE ESTABLISHED    N/A = NOT APPLICABLE                      N/D = NOT DETERMINED

**3. PHYSICAL DATA**

BOILING POINT: 156 - 176°C                      °F	SOLUBILITY IN H <sub>2</sub> O: Nil
VAPOR PRESSURE: < 10 AT 25°C                      °F	SPECIFIC GRAVITY (H <sub>2</sub> O=1): 0.76 - 0.8
VAPOR DENSITY: 5.0 (AIR = 1)	pH: N/A
EVAPORATION RATE: 0.45 (ETHER = 1)	VISCOSITY: N/D
% VOLATILE:	

APPEARANCE AND ODOR: Black liquid. Mild hydrocarbon odor.

**4. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (TEST METHOD): 104°F (Tag closed cup)	FLAMMABILITY LIMITS: LEL = 0.7%                      UEL = 7.0%
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EXTINGUISHING MEDIA:  
Dry chemical, foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES:  
Normal procedures for combustible liquids

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not mix or store with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

**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:  
Fumes, smoke, carbon dioxide, aldehydes and other decomposition (in case of incomplete combustion).

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6. ENVIRONMENTAL INFORMATION	
SPILL RESPONSE: (OBSERVE ALL PRECAUTIONS IN SECTION 7): Remove ignition sources. Remove free liquids, add absorbent. Ventilate confined spaces. Do not breathe vapor.	
RECOMMENDED DISPOSAL: Assure conformity with applicable governmental regulations.	
ENVIRONMENTAL DATA: N/D	
7. PRECAUTIONARY INFORMATION	
Keep away from strong oxidants. Do not store near heat or flame. Use in ventilated area. Close containers when not in use.	
8. HEALTH HAZARD DATA	9. SUGGESTED FIRST AID
EYE CONTACT:	Flush with water for 15 minutes or until irritation subsides. If persists, call a physician.
SKIN CONTACT:  Avoid prolonged or repeated skin contact.	Wash skin with soap and water. Remove contaminated clothing.
INHALATION:  Use in well ventilated area.	If overcome, remove from exposure. Call a physician.
IF SWALLOWED:	DO NOT INDUCE vomiting, call a physician.

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.