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**U.S. DEPARTMENT OF LABOR**  
Occupational Safety and Health Administration

Form Approved  
OSHA No. 44-R1387

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DYK

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>DYKEM COMPANY</b>		EMERGENCY TELEPHONE NO. <b>(314)423-0100</b>
ADDRESS <b>8501 Delport Drive, St. Louis, Missouri 63114</b>		
CHEMICAL NAME AND SYNONYMS <b>Does not apply</b>	TRADE NAME AND SYNONYMS <b>DYKEM LAYOUT FLUIDS</b>	
CHEMICAL FAMILY <b>Specialty Lacquers</b>	FORMULA <b>Does not apply</b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES & SOLVENTS	CAS REGISTRY NO.	%	TLV (Units)
Pigments (average)	N/A	5	---
or Dyes	N/A	1	---
Vehicle Wet Nitrocellulose	9004-67-63.0	2	---
Solvents Denatured Alcohol	64-17-5	up to 57	1000
Solvents Butyl Alcohol	71-36-3	up to 20	100
Solvents Butyl Acetate	123-86-4	up to 42	150

"DYKEM" is the Registered Trade-mark of a line of Proprietary Products used by Industry since 1920. Never any harm to any of our employees who handle daily large volumes of raw materials and finished products. Containers are labeled with Caution Notices regarding flammability and use with adequate ventilation.

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) <b>167°F (Average)</b>	SPECIFIC GRAVITY (H <sub>2</sub> O=1) <b>.86 to .89</b>
VAPOR PRESSURE (mm Hg.) <b>25.1mm@20°C (Average)</b>	PERCENT VOLATILE BY VOLUME (%) <b>80 to 90</b>
VAPOR DENSITY (AIR=1) <b>Heavier than air</b>	EVAPORATION RATE <b>Faster than Butyl Acetate</b>
SOLUBILITY IN WATER <b>Partially</b>	
APPEARANCE AND ODOR <b>Intense color, mild odor</b>	

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Methods used) <b>63°F Cleveland Open Cup</b>	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA <b>Carbon Dioxide, Regular Foam, Dry Chemical</b>			
SPECIAL FIRE FIGHTING PROCEDURES <b>Wear self-contained breathing apparatus in enclosed areas. Water may be used as a cooling medium.</b>			
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>Vapors are heavier than air and may travel along ground and ignited by sparks, flame, or other ignition sources.</b>			

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PROPER SHIPPING NAME: DOT: PAINT, FLAMMABLE LIQUID in Quart containers or larger; CONSUMER COMMODITY, ORM-D for Spray cans and smaller than 1 quart containers.

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HAZARD - C ASS. FLAMMABLE LIQUID - 111-1262

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**SECTION V - HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE	830 (Estimated)
EFFECTS OF OVEREXPOSURE	Irritation of nose and throat. Reddness and irritation of eyes. Excessive breathing of vapors can cause nausea and respiratory irritation.
EMERGENCY AND FIRST AID PROCEDURES	Flush eye, contact with water. If swallowed, drink 2 glasses of water, induce vomiting, call a Physician.

**SECTION VI - REACTIVITY DATA**

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None
INCOMPATIBILITY (Materials to avoid) Strong oxidizing materials			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide or carbon dioxide			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Absorb in waste material that can be burned. Remove stain (color) with DYKEM REMOVER & THINNER 138.
WASTE DISPOSAL METHOD	No waste normally, incinerate or normal disposal for flammables, in accordance with local, state and federal regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION (Specify type) None needed			
VENTILATION	LOCAL EXHAUST	Preferred (ordinary)	SPECIAL None
	MECHANICAL (General)	Acceptable	OTHER None
PROTECTIVE GLOVES		None needed	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		None needed	None needed under normal conditions

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Keep away from heat and flames. Use with adequate ventilation.
OTHER PRECAUTIONS	None

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Information furnished by: DYKEM COMPANY  
R. Belleville  
(314)423-0100  
DATE: APR 30 1986

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HAZARD RATING	1 3 0
4 - EXTREME	
3 - HIGH	
2 - MODERATE	
1 - SLIGHT	