

MATERIAL SAFETY DATA SHEET

Product: BEECHEM LAYOUT FLUID (RED) chemical family: specialty lacquer
KELLEY LABORATORIES, 617 INDUSTRIAL DRIVE, SHELBY MI 49455
PHONE 231 861-6257, FAX 231 861-6458 PREPARED 3/25/2005 by L P KELLEY

Page 1 of 2

INGREDIENTS	TLV	%	CAS#	
Ethanol	1000 ppm	<50	64-17-5	Recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information herein!
Butyl Acetate	150 ppm	<26	123-86-4	
Wet Nitrocellulose	N.E.	<4	9004700	
Toluene	100 ppm	<4	108-88-3	
Natural Resins	N.A.	<3	68607-68-1	
Ethyl Acetate	400 ppm	<3	14178-6	
Methanol	200 ppm	<3	67-56-1	
Acetone	1000 ppm	<2	67-64-1	
Isopropanol	400 ppm	<2	67-63-0	
Di-Butyl Phthalate	5mg/m3	<2	84-74-2	
Water	N.A.	<5	7732-18-5	
Red Dye	nuisance dust	<0.6	2390-60-5	
Butanol	100 ppm	<0.5	71-36-3	
Methyl Isobutyl Ketone	100 ppm	<1	108-10-1	

"Beechem" has been used by industry for over 30 years. It has never harmed any employees who handle large quantities of both raw and finished materials. Containers are labeled "Flammable - Do Not Use Near Open Flame."

PHYSICAL DATA

Boiling Point	165	Specific Gravity (water=1)	.83-.88
Vapor Pressure		Evaporation Rate (ether=1)	3
(mm Hg) at 21C	100	Solubility in Water	Insoluble
Vapor Density (air=1)	>1.6		

Appearance and Odor: Intense bright red, butyl acetate odor predominates

FIRE AND EXPLOSION HAZARD DATA

Flash Point	open cup:	60 F	closed cup:	53.6 F
Flammable Limits	LEL:	6.70%	UEL:	25%
Extinguishing Media:	CO2 - Foam - Dry Chemical			

Special Fire Fighting Procedure: Water streaming should be avoided as this tends to spread any flammable liquid, making control of the fire difficult. When fighting solvent fires, wear a self-contained breathing apparatus, face shield, rubber gloves, rubber boots and rain suit.

Unusual Fire and Explosion Hazards: Vapors are toxic. Vapors mixed with air within flammability concentration limits (6-25% by volume) are explosively ignited by any spark source. Vapors are heavier than air and can travel along floor to distant ignition sources.

REACTIVITY DATA

Material Is :	Stable	Materials to Avoid:	Strong Oxidizers
Hazardous Decomposition or By-Products:		Formaldehyde, carbon monoxide, formic acid	
Hazardous Polymerization:		Will Not Occur	
Conditions to Avoid:		Spark and flame lead to rapid ignition and combustion.	
		Spontaneous ignition in air will occur at 385C.	

HEALTH HAZARD DATA

Routes of Entry and Effects of Acute Exposure

Swallowing: Dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma

Skin Absorption: No adverse effect evidence from available information

Inhalation: May cause dizziness, drowsiness, nausea and vomiting

Skin Contact: No adverse effect evidence from available information

Eye Contact: Minor irritation

Onset of symptoms may be delayed as long as 30 hours. Mild intoxication may be associated with nonspecific headache, fatigue, nausea and blurring of vision, usually reversible.

cont on page 2

MATERIAL SAFETY DATA SHEET: BEECHEM LAYOUT FLUID (RED)

HEALTH HAZARDS

Poisoning by inhalation or vapors is uncommon but could occur at extreme levels of exposure. Intoxication by skin absorption is unlikely unless material is in contact over long periods with injured skin surfaces.

Material Is Not Carcinogenic.

Medical Conditions Generally Aggravated by Exposure: None known to Beechem

Emergency and First Aid Procedures

Swallowing: Induce vomiting immediately. Give 2 glasses of water and stick finger down throat.
 Inhalation: Remove to fresh air. If not breathing, give artificial respiration; preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
 Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Call a physician.
 Skin Contact: Flush with water.

PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Released Or Spilled:

Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Collect large spills for disposal. Small spills are absorbed easily with sawdust.

Waste Disposal Method: Cover with absorbent material - let evaporate under hood, do not pour down sink.

Precautions To Be Taken In Handling And Storing:

Keep away from sparks, use in well ventilated cool place. Do not take internally, keep container closed, avoid breathing vapors.

Other Precautions: Prohibit smoking and open flames or spark sources in area where vapors may exist. Keep containers closed and isolated from heat sources, sparks and open flame. Do not swallow the liquid or breathe vapors.

CONTROL MEASURES

Respiratory Protection: None normally needed in ventilated room.
 Ventilation: Special local ventilation is needed at points where vapors are expected to be vented to the workplace air.
 Protective Gloves: None normally needed.
 Eye Protection: Safety Glasses.
 Other Protective Clothing or Equipment: Eye bath, safety shower.
 Work/Hygenic Practices: Organic vapor mask in unventilated room.

DOT SHIPPING INFORMATION

Shipping Name:	Paint	UN#:	1263
Hazard Class:	3	Packing Group:	II
Labels Required:	Flammable Liquid		

NFPA RATINGS

Health Hazard:	1	Fire Hazard:	2
Specific Hazard:	blank	Reactivity:	0