

SAFETY DATA SHEET: BEECHEM LAYOUT FLUID

KELLEY LABORATORIES, 617 INDUSTRIAL DRIVE, SHELBY MI 49455

PHONE: 1 (231) 861-6257, FAX: 1 (231) 861-6458 PREPARED 6/10/2015

1. Identification of the product.

- | | | |
|---|-------------------------------------|---|
| a | Product Identifier | Beechem Layout Fluid (Metal Dye) |
| b | Other identification method: | None |
| c | Recommended use: | Coloring metals etc... |
| c | Restriction on use: | No available information |
| d | Suppliers details: | Kelley Laboratories
617 Industrial Park Drive
Shelby, MI 49455
Tel: 1 (231) 861-6257 |
| e | Emergency Phone # | 1 800 535 5063 Infotrac |

2. Hazard identification

- | | | |
|---|--|---------------|
| a | This product is considered hazardous according to OSHA hazard communication Standard 2012 (29) CFR 1910.1200 | |
| | Skin Corrosion/Irritation | Category 2 |
| | Serious Eye damage/Eye irritation | Category 1 |
| | Reproductive Toxicity | Category 2 |
| | Specific Target Organ Systemic (single exposure) | Category 3 |
| | Flammable Liquids | Category 2 |
| b | Signal Word | Danger |
| b | Hazard Statements | |
| | May cause skin irritation | |
| | Can cause serious eye damage | |
| | Suspected of damaging fertility of the unborn child. | |
| | May cause respiratory irritation. | |
| | Highly flammable liquid and vapor. | |



Appearance	Red, Blue, Green, Yellow, Purple, Orange, Black, White.
Physical State	Liquid
Odor	Sweet Pleasant

Precautionary Statements

Prevention

Use in a well ventilated area
Read instructions before using
Wash exposed skin after handling
Avoid breathing fumes
Use personal protective equipment as required.
Keep unused container closed
No smoking keep away from sparks or flame
Use non sparking tools

Keep product cool
Avoid any static discharge
Use explosion proof electrical equipment
Ground bond container and receiving containers

Advice	
Mouth	Do not swallow, spit out and call a doctor
Eyes	Rinse with water for a few minutes. Remove contact lenses if it is easy to do. Call a doctor immediately
Skin	If irritation occurs, see a doctor
Inhalation	Get to fresh air and keep at rest in a position for easy breathing.
Fire	Use CO2, dry chemical or foam
Disposal	Dispose to an approved waste disposal location
Storage	Store locked up in a well ventilated area

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other Information

Toxic to aquatic life

3. Composition/information on ingredients

INGREDIENTS	CAS#	Weight %	Trade secret
Ethanol	64-17-5	>50	*
N Butyl Acetate	123-86-4	>25	*
Ethyl Acetate	14178-6	>3	*
Methanol	67-56-1	<3	*
Acetone	67-64-1	<2	*
Isopropanol	67-63-0	<2	*
Dye	2390-60-5	<0.5	*

** Exact composition is withheld as a trade secret.*

4. First Aid Measures

Description of necessary measures.

General If immediate medical attention is necessary, show this SDS to doctor.

Eye contact Rinse immediately and also under eyelids for 10-12 minutes
Keep your eyes wide open during rinsing.
Get immediate medical attention

Inhalation Move to fresh air. If not breathing, give artificial respiration.
Give oxygen, call a doctor

Ingestion If large quantities are swallowed, call a doctor immediately
DO NOT induce vomiting!

Protection of First Aiders Remove all sources of ignition, wear protective clothing.

Most Important symptoms/effects, acute and delayed

Most important symptoms: No information available

Notes to doctor: Treat symptomatically

5. Fire Fighting measures

Suitable methods:

CO2, Foam, Dry Chemicals, Water, Fog

Unsuitable methods:

None

Specific Hazards arising from the chemical

Flamable: Vapors are heavier than air and will spread along the ground and collect in low areas such as sewers, tanks, basements etc...
Can ignite and flash back.

Explosion Data

Not sensitive to mechanical impact
Is sensitive to a static discharge.

Protective gear

Wear self contained breathing gear.
MSHA/NIOH (approved or equivalent)
Use water spray to cool containers.

6. Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures

Personal precautions

Move personnel to a safe area. Ensure good ventilation
Remove ignition sources, Keep people upwind of leaks or spills.

Emergency procedures

Ground and bond any large containers when transferring product.
Sop up with sand or some uncombustible material.

7. Handling and storage

Handling

Avoid contact with eyes or skin. Keep from flames or sparks.
Do not eat, smoke or drink when using this product.

Conditions for safe storage including any incompatibilities.

Storage

Keep away from flames or sparks,
Keep in a properly labeled container
Keep away from children

Incompatible products

Strong oxidizers, Strong acids, Strong alkalis.

8. Exposure control/personal protection

Exposure guides

Chemical Name	ACGIH TLV	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000ppm	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m3
N Butyl Acetate 123-86-4	STEL: 200 ppm TWA: 150 ppm	IDHL: 1700 ppm TWA: 150 ppm TWA: 710mg/m3 STEL: 200ppm STEL: 950 mg/m3
Ethyl Acetate	TWA: 400 ppm	TWA: 400 ppm

141-78-6	1440 mg/m3	TWA: 1400 mg/m3
Methanol 67-56-1	TWA: 200 ppm TWA: 262 mg/m3	TWA: 200 ppm IDHL: 700 ppm
Acetone 67-64-1	TWA: 500 ppm STEL: 750 ppm	TWA: 250 ppm TWA: 590 mg/m3
Isopropanol 67-63-0	TWA: 200 ppm STEL: 200 ppm	TWA: 400 ppm TWA: 980 mg/m3
Dye 2390-60-5	Nuisance dust	

Personal protection

Eye wash station, ventilation, showers
 Eye/face protection: None normally needed
 Hygiene: Do not eat, drink or smoke when using.

9. Physical and chemical properties

Physical state:		Liquid
a Appearance		Red, Blue, Green, Yellow, Purple, Orange, Black, White.
b Odor Threshold		No information available
c pH		No information available
d Melting point		No information available
e Boiling point and range		165-259 °F
f Flash point		58°F
g Evaporation rate		<1 (BuAc = 1)
h Flammability (solid , gas)		No information available
i Flammability Limits in Air		
j Upper		21
k Lower		1.8
l Vapor Pressure		No information available
m Vapor density		>1 (Air = 1)
n Relative Density		0.86 grams/cm3
o Solubility		No information available
p Auto Ignition Temp.		No information available
q Decomposition temp		No information available
r Viscosity		No information available
Oxidizing properties		No information available
Explosive Properties		No information available
Flammable properties		Highly flammable, easily ignited by flames or sparks
VOC Content (%)		
	Red	89.20%
	Blue	88.90%
	Green	90.10%
	Yellow	90.10%
	Purple	88.90%
	Orange	90.10%
	Black	89.30%
	White	85.50%
VOC (g/l)		
	Red	785 g/L
	Blue	783 g/L
	Green	787g/L
	Yellow	787g/L

Purple	783g/L
Orange	787g/L
Black	786g/L
White	775g/L

10. Stability & Reactivity

- a **Reactivity** No information available
- b **Stability** Stable under normal conditions
- c **Hazardous reactions** None known
- d **Conditions to Avoid** Heat, Flames, Sparks
- e **Incompatible materials** Strong oxidizers, acids & alkalis
- f **Hazardous decomposition products** Carbon Monoxide, CO2 & Soot

11. Toxicological Information

- Inhalation:** May cause respiratory irritation, dizziness, drowsiness
- Skin contact:** May cause irritation
- Eye Contact:** Irritating and may cause serious damage
- Ingestion:** Harmful if swallowed

<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LD50 Inhalation</u>
Ethanol	7,060 mg/kg Rat	>17,600 mg/kg Rabbit	125mg/L Rat 4h
n Butyl Acetate	10,768 mg/kg Rat	3,400mg/kg Rabbit	391 ppm Rat 4h
Ethyl acetate	4,100 mg/kg Mouse	>20 mL/kg Rabbit	200 gm/m3 Rat
Methanol	5,600 mg/kg Rat	15,800 mg/kg Rabbit	64,000ppm/Rat 4h
Acetone	5,800 mg/kg Rat	7,426 mg/kg guinea pig	5,0100 mg/m3
Iso Propanol	5,840 mg/kg Rat	12,870 mg/kg Rabbit	73mg/L4h Rat
Dyes	100 mg/kg Rat	>2500 mg/kg Rat	Rat 2/6 (IRT) 8 hr exposure

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available
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Delayed and immediate effects and also chronic effects from short and long term exposure

Carcinogenicity

Ethanol may be carcinogenic when consumed over long periods of time.

This table below shows whether an agency has listed an ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
Isopropanol		Group 3		X

ACGIH: A3	Animal Carcinogen
IARC: Group 1	Human Carcinogen
NPT: Known	Known carcinogen
OSHA: X	Present

Reproductive Toxicity	May damage fertility or an unborn child
STOT single exposure	No information known
STOT repeated exposure	No information known
Chronic Toxicity	May cause adverse liver problems. Ethanol may be a carcinogen if consumed in large quantities over a long period of time.
Target Organ Effects	Eyes, Skin, Central nervous system

Measures of Toxicity	Based on chapter 3.1 of the GHS document		
LD50 Oral	2,711 mg/kg		Acute Toxicity estimate
LD50 Dermal	17,500 mg/kg		Acute Toxicity estimate
Inhalation			
Vapor	138.5 mg/L		Acute Toxicity estimate

12. Ecological Information

This substance contains a chemical which is listed as a marine pollutant according to DOT

Ecotoxicity This product has not been fully researched.

Persistence and Degradability This product has not been fully researched.

Bioaccumulation This product has not been fully researched.

Other adverse effects This product has not been fully researched.

13. Disposal Considerations

Dispose according to local regulations

Don't re-use empty containers

14. Transport information

DOT	UN #	UN 1263
	Hazard class	3
	Shipping name	Paint
	Packing group	II
	Marine Pollutant	Yes
	Description:	UN 1263, Paint, 3, II, RQ
	Emergency response guide	128

15. International Inventories

Not mandatory

16. Other Information

NFPA	Health Hazard	2	Flamable	3	Instability	0
HMIS	Health Hazard	2	Flamable	3	Physical Hazard	0
					Personal protection	X

Prepared by Kelley Laboratories
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Shelby, MI 49455
1 (231) 861-6257

Issue date June /2/2015

General Disclaimer:

This SDS is correct to the best of our knowledge and belief at the date of its publication

It is to be used as only a guide for safe handling and is not to be considered a warranty or quality spec.

End of Safety Data Sheet