



Safety Data Sheet

Dynaflux SDS 304A 07/18/2018

Product: Dynaflux 304 Blue Layout Fluid

Part 1: Product and Company Identification

Identification 304A

Trade Name: Dynaflux 304 Blue Layout Fluid

Product Use: Dye to penetrate cracks in hard surfaces.

Manufacturers Name: Dynaflux, Inc.

241 Brown Farm Rd.

Cartersville, GA 30120 U.S.A.

Emergency Telephone Number: For U.S.: 800-255-3924 International: 813-248-0585

Part 2: Hazard(s) Identification

Physical hazards	Flammable aerosols Gases under pressure	Category 1
Health hazards	Skin corrosion/irritation	Liquefied gas
	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity (the unborn child)	Category 1A
	Specific target organ toxicity, single exposure	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 2
Environmental hazards	Not classified.	Category 1
OSHA defined hazards	Not classified.	

Signal Word: Danger**Hazard Statement:**

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement**Prevention**

Do not handle until all safety precautions as listed on product label have been read. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not puncture or incinerate, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention.

Storage

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 120°F. Exposure to high temperature may cause can to burst.

Disposal

Dispose of contents/container in accordance with local/state/province/national regulations

3. Composition/information on ingredients**Mixtures**

Chemical name	CAS number	%
Toluene	108-88-3	25-35
Xylene	1330-20-7	2-12
Ethyl Benzene	100-41-4	<5
Methyl Ethyl Ketone	78-93-3	2-12
Propane	74-98-6	20-30
Butane	106-97-8	10-20

4. First-aid measures**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

5. Fire Fighting measures

Extinguishing Media: Use dry chemical, carbon dioxide, or foam. Use water to cool fire-exposed containers and to protect personnel. Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity.

Basic Fire Fighting Procedures: Dangerous when exposed to heat or flame. This material can be ignited by flame or spark under normal atmospheric condition. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Pressurized Container: May explode when exposed to heat or flame. Empty containers may retain product residue including Flammable or Explosive vapors. DO NOT cut, drill, grind, or weld near full, partially full, or empty product containers. **Dust**

Explosion Hazard: None known. **Sensitivity To Mechanical Impact:** Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors. **Unusual Fire & Explosion Hazards:** During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water. **Fire Fighting Equipment/Instructions:** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Flam Extension Test: Extremely Flammable

Flammability limits in air: 7 upper % by volume concentrate
9.5 upper % by volume propellant

1.2 lower % by volume concentrate
1.8 lower % by volume propellant

6. Accidental Release measures

Precautions/Protective Equipment

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Containment and Clean Up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling: Keep this product away from heat, sparks or open flame. Avoid getting this material into contact with your skin and eyes. Avoid breathing mists or aerosols of this product. Use this product with adequate ventilation. Do not reuse the empty container.

Storage: Store in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of direct sunlight. Do not store above 120F (49 C). **Empty Container Precautions:** Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container.

Conditions for Safe Storage

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 120°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials

8. Exposure Controls / Personal Protection

Engineering Controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. **Eye Protection:** Wear goggles or safety glasses with side shields. **Skin and Body Protection:** Impervious gloves should be used when handling this product. Use of protective coveralls and long sleeves is recommended. **Respiratory Protection:** Use NIOSH approved respiratory protection. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA). **General:** Use good hygiene practices in handling this material.

Exposure Limits: Component(s)	(PARTS PER MILLION)					
	TLV	OSHA-PEL	OSHA-STEL	SARA 313	Prop 65	VOC
Toluene	20ppm			X	X	X
Xylene	100ppm	100ppm	150ppm	X		X
Ethyl Benzene	100ppm	100ppm	125ppm	X	X	X
Methyl Ethyl Ketone	200ppm	200ppm	300ppm			X
Propane	1000ppm					X
Butane	1000ppm					X

Other raw material is considered trade secret.

9. Physical & Chemical Properties

Solids: N/A	Evaporation Rate: <1 (butyl acetate=1)
PH: N/A	Boiling Point: N/A
Specific Gravity: 0.86	Color: Clear
Physical State: Liquid	Odor: Characteristic

10. Stability & Reactivity

Hazardous polymerization will not occur. Condition to avoid: Keep away from sources of ignition. Avoid contact with strong oxidizers, reducers, acids, and alkalis. Stability: This product is stable under normal conditions.

11. Toxicological information

Toluene: Oral LD50: 636 mg/kg (rat)

Inhalation LC50: 49 gm/m³/4H (rat)

Dermal LD50: 14100 uL/kg (rabbit)

Xylene: Oral LD50: 4,300 mg/kg (rat)

Dermal LD50: >2,000 mg/kg (rabbit)

Ethyl Benzene: Oral LD50: 3,500 mg/kg (rat)

Inhalation LC50: 4000ppm/4H (rat)

Dermal LD50: 15,433 mg/kg (rabbit)

Methyl Ethyl Ketone: Oral LD50: 2,300-3,500 mg/kg (rat)

Inhalation LC50: 11,700 mg/l (rat)

Dermal LD50: >8,000 mg/kg (rabbit)

Propane: Inhalation LC50: 658 mg/L/4H (rat)

Butane: Inhalation LC50: 658 mg/L/4H (rat)

California Prop 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene.

12. Ecological Information

No information available

13. Disposal Considerations

We make no guarantee of warranty of any kind that the use of and/or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

Waste Disposal: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

14. Transport Information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS, LIMITED QUANTITY
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Air: We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

15. Regulatory Information

Toluene: TSCA Inventory

SARA 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA: Toluene (108-88-3) 1000 lbs.

Xylene: TSCA Inventory

SARA 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA: Xylene (1330-20-7) 100 lbs.

Ethyl Benzene: TSCA Inventory

SARA 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA: Ethyl Benzene (100-41-4) 1000 lbs.

Methyl Ethyl Ketone: TSCA Inventory

SARA 311/312: Acute Health Hazard
Fire Hazard

CERCLA: Methyl Ethyl Ketone
(78-93-3)
5000 lbs.

Propane: TSCA Inventory

Butane: TSCA Inventory

California Proposition 65 Statement:



WARNING: This product can expose you to chemicals including Toluene and Ethylbenzene, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information, go to www.p65Warnings.ca.gov/product.

16. Other Information

HMIS® ratings

Health: 2*
Flammability: 4
Physical hazard: 0
Personal protection:
B

NFPA ratings

Health: 2
Flammability: 4
Instability: 0

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Disclaimer of Expressed and implied Warranties:

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date of the Safety Data sheet was prepared. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices as specified on the label copy.