



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Blue Layout Fluid

Product Number (s): 03066

Product Use: layout fluid

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Vapor Harmful. Harmful or Fatal if Swallowed.
Eye and Skin Irritant. Contents under pressure.

Appearance & Odor: Blue liquid, solvent odor.

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause irritation, including redness and itching or burning sensation.

SKIN: Prolonged or repeated exposure may cause irritation, including redness and itching.

INHALATION: May cause irritation of the upper respiratory system and nervous system depression (headache, dizziness, nausea, and loss of coordination). Extreme overexposure may result in unconsciousness and possibly death.

INGESTION: Ingestion of aerosol product is not expected during normal use.

CHRONIC EFFECTS: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TARGET ORGANS: Liver and urinary systems

Medical Conditions Aggravated by Exposure: Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	45 - 55
Toluene	108-88-3	5 - 15
Propane	74-98-6	5 - 15
Butane	106-97-8	5 - 15
Diacetone Alcohol	123-42-2	1 - 5
Methyl Isobutyl Ketone	108-10-1	1 - 5
Xylene	1330-20-7	1 - 5
Methyl Ethyl Ketone	78-93-3	1 - 5
n-Butanol	71-36-3	< 2
Ethylbenzene	100-41-4	< 1

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

Flash Point: < 0°F / -17°C (TCC)	Upper Explosive Limit: 12.8
Autoignition Temperature: ND	Lower Explosive Limit: 1.0

Fire and Explosion Data:

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam, Class B extinguishers

Products of Combustion: Carbon dioxide, dry chemical, foam, Class B extinguishers

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors can accumulate and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Remove all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. Keep area ventilated. Avoid breathing vapors. Do not smoke. Wash hands after use and before handling food. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Acetone	750	1000	500	750	NE		ppm
Toluene	100	150	20	NE	NE		ppm
Propane	1000	NE	1000	NE	NE		ppm
Butane	800	NE	1000	NE	NE		ppm
Diacetone Alcohol	50	NE	50	NE	NE		ppm
Methyl Isobutyl Ketone	50	75	20	75	NE		ppm
Xylene	100	150	100	150	NE		ppm
Methyl Ethyl Ketone	200	300	200	300	NE		ppm
n-Butanol	50 (s)	NE	20	NE	NE		ppm
Ethylbenzene	100	125	20	125	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor/particulate cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
 Color: blue
 Odor: solvent
 Odor Threshold: ND
 Specific Gravity: 0.75
 Initial Boiling Point: ND
 Freezing Point: ND
 Vapor Pressure: ND
 Vapor Density: > 1 (air = 1)
 Evaporation Rate: fast
 Solubility: ND
 Coefficient of water/oil distribution: ND
 pH: NA
 Volatile Organic Compounds: wt %: 44.26 g/L: 332 lbs./gal: 2.75

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition, temperature extremes

Incompatible Materials: None known

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Acetone	5800 mg/kg	No data	50,100 mg/m ³ /8H
Toluene	636 mg/kg	14,100 µL/kg	49 g/m ³ /4H
Propane	No data	No data	No data
Butane	No data	No data	658,000 mg/m ³ /4H
Diacetone Alcohol	2520 mg/kg	13,500 mg/kg	No data
Methyl Isobutyl Ketone	2080 mg/kg	No data	100 g/m ³
Xylene	4300 mg/kg	> 1700 mg/kg	5000 ppm/4H
Methyl Ethyl Ketone	2737 mg/kg	6480 mg/kg	23,500 mg/m ³ /8H

n-Butanol	790 mg/kg	3400 mg/kg	8000 ppm/4H
Ethylbenzene	3500 mg/kg	> 5000 mg/kg	55,000 mg/m ³ /2H

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Acetone	No	No	No	E & S (moderate) / R (mild)	Yes
Toluene	No	No	No	E, S & R (mild)	Unknown
Propane	No	No	No	No	No
Butane	No	No	No	No	No
Diacetone Alcohol	No	No	No	E (moderate) / R (mild)	Unknown
Methyl Isobutyl Ketone	No	No	No	E (mild) / S & R (moderate)	Unknown
Xylene	No	No	No	E (mild) / S (moderate)	Unknown
Methyl Ethyl Ketone	No	No	No	E (moderate) / S & R (mild)	Unknown
n-Butanol	No	No	No	E (moderate) / S & R (mild)	Unknown
Ethylbenzene	No	Group 2B	No	E (moderate) / S (mild)	Unknown

E – Eye	S – Skin	R - Respiratory
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Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Acetone - 48 Hr LC50 daphnia: 10 mg/L
 Toluene - 96 Hr LC50 fat head minnow: 36.2 mg/L (Spearman-Karber Method)
 Persistence / Degradability: No information available
 Bioaccumulation / Accumulation: No information available
 Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the following potential waste codes: D001. (See 40 CFR Part 261.20 – 261.33) Aerosol containers should be fully emptied and depressurized before disposal. Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Consumer Commodity, ORM-D
 ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Toluene (1,000 lbs), Ethylbenzene (1,000 lbs), Xylene (100 lbs), n-Butanol (5,000 lbs), Acetone (5,000 lbs), Methyl Ethyl Ketone (5,000 lbs), Methyl Isobutyl Ketone (5,000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard	Yes
Reactive Hazard	No
Release of Pressure	Yes
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Toluene (<10%), Ethylbenzene (0.3%), Xylene (2%), n-Butanol (1%), Methyl Isobutyl Ketone (3%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Toluene, Ethylbenzene, Xylene, Methyl Isobutyl Ketone

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm:

Toluene, Ethylbenzene

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 108-88-3, 100-41-4, 1330-20-7, 71-36-3, 123-42-2, 67-64-1, 78-93-3, 108-10-1
Pennsylvania: 108-88-3, 100-41-4, 1330-20-7, 71-36-3, 123-42-2, 67-64-1, 78-93-3, 108-10-1
Massachusetts: 108-88-3, 100-41-4, 1330-20-7, 71-36-3, 123-42-2, 67-64-1, 78-93-3, 108-10-1
Rhode Island : 108-88-3, 100-41-4, 1330-20-7, 71-36-3, 123-42-2, 67-64-1, 78-93-3, 108-10-1

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the

MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: A, B5, D2A, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

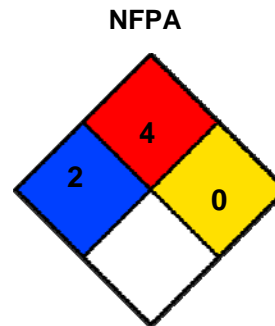
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	2
Flammability:	4
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
 CRC #: 03066
 Revision Date: 04/27/15

Changes since last revision: Revision Date

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

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| ACGIH: American Conference of Governmental Industrial Hygienists | NA: Not Applicable |
| CAS: Chemical Abstract Service | ND: Not Determined |
| CFR: Code of Federal Regulations | NIOSH: National Institute of Occupational Safety & Health |
| DOT: Department of Transportation | NFPA: National Fire Protection Association |
| DSL: Domestic Substance List | NTP: National Toxicology Program |
| g/L: grams per Liter | OSHA: Occupational Safety and Health Administration |
| HMIS: Hazardous Materials Identification System | PMCC: Pensky-Martens Closed Cup |
| IARC: International Agency for Research on Cancer | PPE: Personal Protection Equipment |
| IATA: International Air Transport Association | ppm: Parts per Million |
| ICAO: International Civil Aviation Organization | RoHS: Restriction of Hazardous Substances |
| IMDG: International Maritime Dangerous Goods | STEL: Short Term Exposure Limit |
| IMO: International Maritime Organization | TCC: Tag Closed Cup |
| lbs./gal: pounds per gallon | TWA: Time Weighted Average |
| LC: Lethal Concentration | WHMIS: Workplace Hazardous Materials Information System |
| LD: Lethal Dose | |