
SECTION 1: Identification

Recommended use of the chemical and restrictions on use:

Uses: FD&C Color
Restrictions on use: None identified

Manufacturer/Supplier: SAFFIRE BLUE INC.
1444 BELL MILL SIDEROAD
TILLSONBURG, ON N4G4G9
CANADA
www.saffireblue.ca
519-286-0295 | 877-248-1115

Emergency telephone number: ChemTel (MIS3548100)
(800) 255-3924 United States, Canada, Puerto Rico and the U.S. Virgin Islands
(813) 248-0585 International

SECTION 2: Hazard(s) identification

Information in accordance with 29 CFR 1910.1200 (Hazcom 2012) in effect on May 25, 2012:

Classification of the chemical in accordance with 29 CFR 1910.1200(d):

Combustible dust.

Label elements in accordance with 29 CFR 1910.1200(f):

Hazard pictogram(s): Not Applicable

Signal word:

Warning.

Hazard statements :

May form combustible dust concentrations in air.

Precautionary statements : Not Applicable

Notes: No Additional Information

Hazards not otherwise classified: No Additional Information

Information in accordance with 29 CFR 1910.1200 in effect before May 25, 2012:

Potential physical and environmental effects: May form combustible dust concentrations in air.

Potential health effects - Acute health effects: Dust inhalation may cause respiratory irritation. Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation. Repeated or prolonged skin contact may cause irritation.

Potential health effects - Chronic health effects: Prolonged or repeated contact may irritate the skin, causing dermatitis.

See Section 11 for toxicological information.

SECTION 3: Composition/information on ingredients

Substance:

CAS-No.	<u>Chemical Name</u>
0068921-42-6	FD&C Blue No.1, aluminum lake

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of first aid measures :

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation: If affected, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Get medical attention if symptoms occur.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms and effects, both acute and delayed: Irritation, Skin contact may discolor skin due to pigment. Preexisting sensitization, skin and/or respiratory disorders or diseases may be aggravated. See section 11 for additional information.

Indication of any immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5: Fire-fighting measures

NFPA flammability class: NA (Combustible solid)

Extinguishing media:

Suitable: Carbon dioxide, foam, dry chemical, water.

Unsuitable: None

Special hazards arising from the chemical:

Unusual fire/explosion hazards: This product is not known to present any fire hazard.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (10.6 Hazardous decomposition products) for additional information.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists.

See section 9 for additional information.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate.

Environmental precautions: Do not flush product into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain spill. Wear proper personal protective clothing and equipment. Sweep up carefully and place into container for reuse or disposal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and laundry before reuse.

SECTION 7: Handling and storage

Precautions for safe handling: As with any chemical product .use good laboratory/workplace procedures .Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions . Avoid eye contact. Avoid repeated or prolonged skincontact. Avoid breathing dust. Avoid drinking, tasting, swallowing or ingesting this product.Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers inthe work area.

Conditions for safe storage, including any compatibilities :Store cool and dry ,under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open ,unlabeled or mislabeled containers . Keep container closed when not in use.

SECTION 8:Exposure controls /personal protection

Control parameters:

Occupational exposure limits (OEL):

Chemical Name	ACGIH - TWA		ACGH - STEL	
FD&C Blue No.1,aluminumlake	1.00 mg/m3 (as Al insoluble compd+ respirable)		N/E	
<u>Chemical Name</u>	OSHA - PEL	OSHA - STEL	OSHA - Ceiling	Mexico
FO&C Blue No.1.aluminum lake	N/E	N/E	N/E	N E

N/E=Not established (no exposure limits established for the listed substances for listed country/ region/organization).

PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified (PNOS): 10 mg/m3 TWA (inhalable particles), 3 mg/m3 TWA (respirable particles).OSHA exposure limits for Particulates not otherwise regulated are 15 mg/m3 TWA (total dust) and 5 mg/m3 TWA (respirable fraction).

Exposure controls:

Appropriate engineering controls: Always provide effective general and,when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SOS. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation:American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH,45240-1634 , USA.) (<http://www.acgih.org/home.htm>) .

Individual protection measures ,such as personal protective equipment (PPE):

Eye/face protection: Wear eye protection.

Skin and body protection:Wear protective gloves . Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Respiratory protection is not needed with proper ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust cannot be avoided,wear an approved particulate respirator. Use

respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Further information: Eyewash fountains and safety showers are recommended in the work area.

SECTION 9: Physical and chemical properties

Form:	Powder	pH:	Not Available
Appearance:	Blue	Relative density:	Not Available
Odor:	None	Partition coefficient (n-octanol/water):	Not Available
Odor threshold:	Not Available	% Volatile by weight:	Not Available
Solubility in water :	Insoluble	VOE:	Not Available
Evaporation rate:	Not Available	Boiling point °C:	Not Applicable
Vapor pressure:	Not Available	Boiling point °F:	Not Applicable
Vapor density:	Non-volatile	Flash point:	Not Applicable
Viscosity:	Not Available	Auto-ignition temperature :	>750C
Melting point/Freezing point:	Not Available	Flammability (solid, gas):	Not flammable (may form combustible dust-air mixtures)
Oxidizing properties:	Not oxidizing	Flammability or explosive limits:	LFL/LEL Not Available UFL/UEL Not Available
Explosive properties:	Not explosive		
Decomposition temperature:	Not Available		

Other information: Amounts specified are typical and do not represent a specification.

Dust combustibility data: FD&C Blue No. 1 Aluminum Lake: Typical results expected for this family of products size variation is considered a critical factor in regards to dust explosion hazard information. Sample tested - particle size <75 microns, moisture content <5%.

SECTION 10: Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat and ignition sources. Avoid dust formation.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Oxides of carbon, oxides of nitrogen, oxides of sulfur. Aluminum oxides.

SECTION 11: Toxicological information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Eyes: Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation.

Skin: Repeated or prolonged skin contact may cause irritation.

Inhalation: Dust inhalation may cause respiratory irritation.

Ingestion: Ingestion may cause irritation.

Symptoms/effects, acute and delayed: Irritation, Skin contact may discolor skin due to pigment

Acute toxicity information: Not classified. No toxicity studies have been conducted on this product.

<u>Chemical Name</u>	<u>Inhalation LC50</u>	<u>Oral LPSO</u>	<u>Dermal LOSO</u>
FD&C Blue No.1, aluminum lake	N/E	N/E	N/E

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met.) No toxicity studies have been conducted on this product.

<u>Chemical Name</u>	<u>Skin Irritation</u>
FD&C Blue No.1, aluminum lake	N/E

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met.)

Chemical Name Eye irritation
FD&C Blue No.1, aluminum lake N E

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met.)

Chemical Name Skin sensitisation
FD&C Blue No.1, aluminum lake NIE

Carcinogenicity: Not classified (based on available data, the classification criteria are not met.)

Carcinogenic status : Not listed or regulated by IARC, NTP, OSHA, or ACGIH.

Germ cell mutagenicity : Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT) - single exposure: Not classified.

Specific target organ toxicity (STOT) - repeated exposure: Not classified.

Aspiration hazard: Not classified.

Other toxicity information: No additional information available.

SECTION 12: Ecological information

Ecotoxicity: No ecological testing has been conducted on this product.

<u>Chemical Name</u> FD&C Blue No.1, aluminum lake	<u>Fish 96 hour LC50</u> N E	<u>Fish 96 hour LC50</u> NIE	<u>Fish Chronic NOEC</u> N E
<u>Chemical Name</u> FD&C Blue No.1, aluminum lake	Invertebrates 48 hour EC50 N E	Invertebrates 24 hour EC50 N/E	Invertebrates Chronic NOEC N E
Chemical Name FD&C Blue No.1, aluminum lake	Algae 96 hour EC50 N E	<u>Algae 72 hour EC50</u> N E	<u>Algae Chronic NOEC</u> N E

Persistence and degradability: No specific information available.

Chemical Name Biodegradation
FD&C Blue No.1, aluminum lake N E

Bioaccumulative potential: No specific information available.

Chemical Name Bioconcentration Factor/BCFI
FD&C Blue No.1, aluminum lake NIE

Mobility in soil: No specific information available.

Chemical Name Mobility in soil Koc/Kowl
FD&C Blue No.1, aluminum lake N/E

Other adverse effects: No additional information available.

SECTION 13: Disposal considerations

For waste disposal purposes, this product is not defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations.

See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details

Transport hazard class(es):

U.S. DOT hazard class: N/A

Canada TOG hazard class: N/A

Europe ADR/JRID hazard class: N/A
IMDG Code (ocean) hazard class: N/A
ICAO/IATA (air) hazard class: N/A

A "N/A" listing for the hazard class indicates the products not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not Applicable

Special precautions for user: Not Applicable

SECTION 15: Regulatory information

Safety, health and environment regulations/legislation specific for the product:

U.S.federal and state regulations/legislation:

This SDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):
Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA) - SARA Section 313:

None Known

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Canada regulations/legislation:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canadian Workplace Hazardous Material Information System (WHMIS) classification: Not controlled

Canadian Ingredient Disclosure List:

None known to be present or none in reportable amounts

Mexico regulations/legislation:

This SDS contains the information required by NOM-018-STPS -2000 Workplace Hazardous Chemical Substances Communication and Identification Standard.

Chemical inventories:

Regulation	Status
Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) noninformation is available; or 3) the component has not been reviewed.

SECTION 16: Other information

SOS Revision date: 2/14/2014

HMIS (Hazardous Materials Identification System) Ratings:

Health: 1 Flammability: 0 Reactivity (Stability): 0 Personal Protection: X

NFPA (National Paint and Coating Association) Ratings:

Health: 1 Flammability: 0 Instability: 0

Key: 0=insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable

N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

Users Responsibility/ Disclaimer of Liability:

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.