



MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004
Date of Issue: March, 15, 2004

MSDS N°: UMB/US01

ULTRAMARINE BLUE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:

Name: SAFFIRE BLUE INC.
Address: 1444 Bell Mill Road,
Tillsonburg, ON N4G4G9
Canada
Tel. Number: 519-286-0295

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

In the continental U.S., call: 770-338-4990
For additional non-emergency information, call: 770-277-8819

Product Name: ULTRAMARINE BLUE

Synonyms: No information available
Chemical formula: Not available

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Percent	CAS Number	RTECS Number
Sodium Aluminium Sulfosilicate Pigment Blue 29 C.I. 77007	100	57455-37-5	---

SECTION 3 – HAZARDS IDENTIFICATION

CAUTION: May be harmful if swallowed or inhaled

Replaces version dated: ---



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SECTION 3 – HAZARDS IDENTIFICATION (CONTINUED)

Potential Health Effects

1. **Skin:** May cause skin irritation. May cause an allergic reaction in certain individuals.
 2. **Eyes:** May cause eyes irritation.
 3. **Inhalation:** May be harmful if inhaled.
 4. **Ingestion:** May cause gastrointestinal tract irritation with nausea, vomiting and diarrhoea.
 5. **Chronic information:** Prolonged or repeated exposure may cause severe irritation and dermatitis. Repeated inhalation may cause chronic bronchitis.
-

SECTION 4 – FIRST AID MEASURES

SEEK IMMEDIATE MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE

Skin: Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and thoroughly clean before reuse. Seek medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by a physician.

Note to Physician: Treat symptomatically and supportively.

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SECTION 5 – FIRE FIGHTING MEASURES

	Ultramarine Blue
Flammability Properties:	<i>Non combustible. Not considered to be a fire hazard.</i>
Flash Point / Method:	No information available.
Flammability Limits (in air % by volume)	No information available.
LEL:	No information available.
UEL:	No information available.
Auto ignition Temperature:	No information available.
Hazardous Combustion Products:	Sulphur dioxide gas may be released
Extinguishing Media:	Water, dry chemical foam, or alcohol-resistant foam.
Firefighting instructions:	As in any fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

General Information: Wear appropriate personal protective equipment as specified in Section 8.

Spills / Leaks: Take up and containerize any spills for reclamation or disposal. US CERCLA Regulations require reporting spills and releases to soil, water, and air in excess of reportable quantities.

SECTION 7 – HANDLING AND STORAGE PROCEDURES

Handling: Avoid breathing dust. Avoid contact with skin or eyes. Wash thoroughly after handling. Keep container tightly closed. Wear appropriate personal protective equipment as specified in Section 8.

Storage: Store in a tightly closed container in a cool, dry location away from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements for European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Skin Protection: Wear appropriate protective clothing and gloves to prevent skin exposure.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles to prevent eye exposure.

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Exposure Limits: Ultramarine Blue		
ACGIH	NIOSH	OSHA Final PEL's
Ceiling Value < 10 mg/m ³ (8 hours) TWA < 5 mg/m ³ (8 hours)		

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Blue
Odour	Odourless
Ph	7-9 @ 100 g/l solution
S Loss	400 °C
Melting Point	> 1000 ° C
Vapour Pressure (mm Hg)	Not applicable
Vapour Density (Air=1)	Not applicable
Solubility in Water	Insoluble
Specific Gravity/Density	2.35 (water = 1)

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SECTION 10 – STABILITY AND REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Above 400°C sulphur dioxide gas is released.

Incompatibility: Hydrogen sulphide may be released in contact with acids.

Hazardous Decomposition Products: Sulphur dioxide, hydrogen sulphide

Hazardous Polymerization: None

SECTION 11 – TOXICOLOGICAL INFORMATION

LD₅₀ (oral) > 10 g/kg (rats)

Chronic / Carcinogenicity: no human carcinogen

Teratology: no teratogenic

Reproduction: no toxic for reproduction

Mutagenicity: no mutagenic

Other Studies: no information available

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate: This material is not expected to biodegrade when released into the soil. This material is not expected to significantly bioaccumulate.

LC₅₀ (fish) >32000 mg/kg

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of containers and contents in accordance with all local, state, and Federal requirements.

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SECTION 14 – TRANSPORTATION INFORMATION

D.O.T

Proper Shipping Name: Not applicable.

Hazard Class/I.D. No./Packing Group: Not applicable.

Label: Not applicable.

Additional Information: Not applicable.

I.M.O./I.M.D.G.

Proper Shipping Name: Not applicable.

Hazard Class/I. D. No. /Packing Group: Not applicable.

Label: Not applicable.

Additional Information: Not applicable.

I.C.A.O./I.A.TA.

Proper Shipping Name: Not applicable.

Hazard Class/I. D. No. /Packing Group: Not applicable.

Label: Not applicable.

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SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 8 (b): CAS # 57455-37-5 is listed on TSCA inventory.

SARA title III Section 302 Extremely Hazardous Substances (EHS): Since Ultramarine Blues are not EHS and no Threshold Planning Quantity is established, its presence in quantities at or above TPQ does not require any Emergency Planning Notification under 40 CFR Part 355.

SARA title III Section 304 CERCLA Hazardous Substances: Releases in quantities equal to or above their Reportable Quantity are not subject to any Emergency Notification, as no reportable quantity is established under 40 CFR Part 302.

SARA title III Sections 311 / 312: No reporting (Tier I or Tier II) shall be submitted by the facility under 40 CFR Part 370.

Physical Hazards

Fire: None
Sudden Release of Pressure: None
Reactivity: None

Health Hazards

Immediate (Acute): None
Delayed (Chronic): None

SARA title III Section 313 Toxic Chemicals: No reporting for routine annual toxic chemicals release shall be submitted under 40 CFR Part 372.

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FDA

Ultramarine Blue is cleared in 21 CFR:

- Part 73 under § 73.50 (Colour Additives Approved for Use in Human Food)(Salt intended for animal feed)
- Part 73 under § 73.2725 (Colour Additives Approved for Use in Cosmetics)(Externally applied cosmetics including eye area use)
- Part 178 under §178.3297 (Colorants for Polymers)
- Part 177 under § 177.2600 (Colorants in Rubber Articles intended for repeated Use)

State Regulations

Ultramarine Blues do not appear on the following state Right to Know lists:

California Proposition 65
New Jersey RTK Hazardous Substance List
Pennsylvania Hazardous Substances List
Florida Toxic Substance List
Massachusetts Hazardous Substance List
Michigan Critical Materials Register
Minnesota Hazardous Substance List

Others

Canadian Environmental Protection Act Domestic Substances List (**DSL**)
Australian Inventory of Chemical Substances (**AICS**)
Japan Hygienic Olefin and Styrene Plastic Association (**JHOSPA**)
CONEG- Developed Model Toxics in Packaging Legislation

European Directives

Directive 94/62/EEC: EU Directive on Packaging and Packaging Waste; comparable to US CONEG Legislation
Resolution AP 89 (I): use of colorants in plastic materials and articles that may come into contact with foodstuffs.
Directive 2004/73/EC (last amendment of Dir. 67/548/EEC): Ultramarine Blues are not listed in Annex I (Dangerous Substances)

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SECTION 16 – OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Saffire Blue Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z-400.1-1998. Although ILO (International Labour Organization) has adopted ANSI Z-400.1-1998, ultimate disposition lies with the competent authority.

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