

**SAFETY DATA SHEET**  
According to OSHA 29 CFR 1910.1200 – GHS

**Revision date:** September 7, 2015

**Supersedes:** November 13, 2014

## ULTRAMARINE BLUE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Ultramarine Blue, Nubix, Nubiperf, Nubiflow, Nubicoat HRD, Nubicoat HTS, Nubicoat HWR, Victoria Ultramarine Blue

**Use:** Coloring agents, Pigments

**Company identification:** NUBIOLA USA  
6369 Peachtree Street  
Norcross, GA 30071, USA  
Tel +1 (770) 277-8819  
[nuproducts.safety@ferro.com](mailto:nuproducts.safety@ferro.com)

**Emergency telephone number:** 800-424-9300 (CHEMTREC, 24 hours)  
International call: 703-527-3887 (collect calls accepted)

### 2. HAZARDS IDENTIFICATION

**Classification of the chemical in accordance with Standard 29 CFR 1910.1200 (US-GHS)**  
Not classified.

**Label elements (Hazard Communication Standard 29 CFR 1910.1200 (US-GHS))**  
No labelling applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No	Concentration (%)	RTECS No
Ultramarine Blue (Pigment Blue 29, CI 77007)	57455-37-5	100	---

**Substance / Mixture:** Substance

**Synonyms:** Blue sodium polysulfide aluminosilicate sodalite-type

### 4. FIRST-AID MEASURES

#### Description of first-aid measures

**In case of inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

**In case of skin contact:** Rinse skin with water. If skin irritation occurs, get medical advice.

**In case of 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. If eye irritation occurs, get medical advice.

**In case of ingestion:** Rinse mouth. Do not induce vomiting unless directed to do so by a physician. If you feel unwell, seek medical attention.

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**Most important symptoms/effects, both acute and delayed**

Not expected to present a significant hazard under anticipated conditions of normal use.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

Suitable Extinguishing Media: Foam, water spray, dry chemical powder, carbon dioxide or sand.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

**Specific hazards arising from the chemical**

Thermal decomposition, temperature above 400 °C, can lead to SO<sub>2</sub> gas release.

**Special protective equipment and precautions for fire-fighters**

Wear self-contained breathing apparatus and protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Provide adequate ventilation. Evacuate unnecessary personnel. Wear personal protection equipment (See section 8).

**Environmental precautions**

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

**Methods for containment and clean up**

On land, sweep or shovel into suitable containers for disposal or recovery. Minimize generation of dust.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

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.

Technical protective measures: Provide adequate ventilation to minimize dust concentration.

**Conditions for safe storage, including any incompatibilities**

Storage: Keep only in the original container in cool, dry, well-ventilated places away from incompatible materials. Keep container closed when not in use.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure limits**

No specific limits have been established for Ultramarine Blue. As a guideline, OSHA and ACGIH have established the following limits which are generally recognized for inert or nuisance dusts.

Exposure Limits: Particulates Not Otherwise Regulated (PNOR)		
ACGIH TLV	OSHA PEL	NIOSH REL
Inhalable: 10 mg/m <sup>3</sup> (8h) Respirable: 3 mg/m <sup>3</sup> (8h)	Total dust: 15 mg/m <sup>3</sup> (8h) Respirable: 5 mg/m <sup>3</sup> (8h)	Not established

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### Appropriate engineering controls

If needed use local exhaust ventilation to keep dust concentration below limits cited in this Section.

### Personal protective equipment

**Respiratory protection:** Dust mask required in dusty environments or exceeding total dust limits.

**Eye/face protection:** Wear appropriate chemical safety glasses/goggles.

**Hand /Skin protection:** Wear appropriate protective gloves and clothing.

### General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance:</b>	Solid, fine powder
<b>Color:</b>	Blue
<b>Odor:</b>	Odorless
<b>pH:</b>	6 – 9 [ASTM D-1208-78]
<b>Melting point:</b>	> 1000 °C
<b>Boiling point:</b>	Not applicable
<b>Flash point:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not flammable
<b>Explosive properties:</b>	Not explosive
<b>Vapor pressure at 20°C:</b>	Not applicable
<b>Vapor density:</b>	Not applicable
<b>Density:</b>	2.35 g/cm <sup>3</sup> [ASTM D-153-84] (water=1)
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient, n-octanol/water:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	400 °C
<b>Viscosity:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity

No hazardous reaction known under normal conditions of use

### Chemical stability

Stable under normal conditions

### Possibility of hazardous reactions

Stable under normal conditions

### Conditions to avoid

At temperatures above 400 °C in the presence of air, Sulfur Dioxide (SO<sub>2</sub>) gas can be released

### Incompatible materials

Strong acids and bases

### Hazardous decomposition products

At temperatures above 400 °C in the presence of air, Sulfur Dioxide (SO<sub>2</sub>) gas can be released. Hydrogen sulfide may be released in contact with acids. (Not resistant grades)

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### 11. TOXICOLOGICAL INFORMATION

<b>Acute oral Toxicity:</b>	LD50 oral, rat: > 10000 mg/kg
<b>Acute Toxicity:</b>	Based on available data, the classification criteria are not met
<b>Chronic Toxicity:</b>	Based on available data, the classification criteria are not met
<b>Irritation:</b>	Non-irritant
<b>Sensitization:</b>	Non-sensitizing
<b>Mutagenicity:</b>	Non-mutagenic
<b>Carcinogenicity:</b>	No human carcinogen
<b>Reproductive toxicity:</b>	No toxic for reproduction
<b>Aspiration hazard:</b>	Not applicable

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Based on available data, the classification criteria are not met

LC50 (Fish 96 h) : > 32000 mg/L

#### Persistence and degradability

Not applicable (Inorganic substance)

#### Bioaccumulative potential

Not applicable

#### Mobility in soil

Not applicable

#### Results of PBT and vPvB assessment

The substance does not meet the criteria to be identified as PBT or vPvB

### 13. DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local / state / Federal regulations. Avoid release to the environment.

It is responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

### 14. TRANSPORT INFORMATION

#### DOT

Not regulated. Not dangerous good.

#### Transport by sea (IMO / IMDG)

Not regulated. Not dangerous good

#### Air transport (ICAO / IATA)

Not regulated. Not dangerous good

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### 15. REGULATORY INFORMATION

#### US Federal Regulations

**TSCA:** CAS # 57455-37-5 is listed on TSCA Inventory

#### SARA Title III Rules

**Section 302 – Extremely Hazardous Substances:** None

**Section 304 – CERCLA Hazardous Substances:** None

#### Sections 311/312 – EPCRA (Hazard Classes)

*Immediate (Acute):* None

*Delayed (Chronic):* None

*Fire:* None

*Release of pressure:* None

*Reactivity:* None

**Section 313 – Toxic Chemical Release Inventory (TRI):** None

#### US State Regulations

Ultramarine Blue does not appear on the following state Right-To-Know Lists:

*California Proposition 65*

*Florida Hazardous Substances List*

*Massachusetts Substance List*

*Michigan Critical Materials Register*

*Minnesota Hazardous Substances List*

*New Jersey Hazardous Substance List*

*Pennsylvania Hazardous Substance List*

#### FDA

Ultramarine Blue is cleared in 21 CFR:

*Part 178 under §178.3297 (Colorants for polymers)*

*Part 177 under §177.2600 (Colorants in Rubber Articles intended for repeated Use)*

*Part 177 under §177.1210 (Closures with sealing gaskets for food containers)*

*Part 175 under §175.300 (Resinous and polymeric coatings)*

*Part 73 under §73.2725 (Color Additives approved for use in Cosmetics) (Externally applied cosmetics including eye area use)*

**Note:** Not all the grades of Ultramarine Blue are recommended for cosmetic or food contact applications. Users are asked to contact our technical service for further information.

#### Canada

DSL (*Canadian Environmental Protection Act, Domestic Substances List*): included

#### European Union

REACH (*Regulation (EC) No 1907/2006*): Nubiola registered substance, REACH no: 01-2119488928-13

EINECS (*European Inventory of Existing Commercial Chemical Substances*): 309-928-3

CLP (*Regulation (EC) No 1272/2008*): Ultramarine Blue is not classified as hazardous substance.

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## ULTRAMARINE BLUE

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### 16. OTHER INFORMATION

**Modification(s) to the previous version:** new company logo and e-mail address

This Safety Data Sheet complies with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HCS-2012) and its adaptation of United Nations 'Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. **DISCLAIMER OF LIABILITY:** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.