

SECTION I: PRODUCT INFORMATION

Product Name: Ultramarine Blue
 Chemical: Sodium Alumino Sulphosilicate
 CAS#s: (i) 57455-37-5; C.I. Pigment Blue 29 (9CI)
 (ii) 101357-30-6; Silicic acid aluminum sodium salt, sulphurised
 Product Uses: Pigment
 Revision Date: August 27, 2013

SECTION II: SPECIFICATION

Property		Maximum	Minimum
Color 1:4 reduction in high impact polystyrene	DE	1.0	
	Strength	105%	95%
Matter Volatile at 105 °C		1%	not known
Water soluble matter		0.7%	not known
Sieve residue (45 µm)		0.05%	
Free sulphur		0.05%	
Trace metals	Lead	10ppm	
	Arsenic	1ppm	
	Mercury	1ppm	

SECTION III: TYPICAL DATA

Specific gravity: 2.35
 Tap density (g/cm³): 0.76
 Oil absorption (%): 32.5
 Mean particle size (µm): 2.60
 Cube for shipping (m³): 1.64

SECTION IV: REACTIVITY DATA

Incompatible substances: acids
Hazardous decomposition products: hydrogen sulphide released by acid contact

SECTION V: HEALTH & ENVIRONMENTAL INFORMATION DATA

Ultramarine is one of the safest pigments available to industry.

Acute oral toxicity (LD 50): greater than 10g/kg
Skin irritation: non irritant, non sensitizing
Eye irritation: none
Ecology: non-hazardous

SECTION VI: SPILLS, LEAKS, & DISPOSAL PROCEDURES

Leak Precaution: Not required – solid material
Handling Spill: Shovel carefully (do not create dust) or vacuum spilled material; sprinkle residue with dust-suppressing sweeping compound, sweep, shovel and store in closed containers for disposal
Waste Disposal: Do not flush to sewer, this product is not a hazardous waste; may be dumped in sanitary landfill unless local regulations forbid this

SECTION VII: PROTECTION EQUIPMENT

Ventilation: Mechanical ventilation may be required to maintain airborne dust below TWAEV; depending on handling procedures
Hands: No special protective gloves required
Eyes: Safety glasses with side shields – *always protect the eyes*
Clothing: No special protective clothing required
Respirator: NIOSH approved dust mask

SECTION VIII: FIRST AID

SKIN:	Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES:	Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION:	Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION:	Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.

SECTION IX: HANDLING & STORAGE REQUIREMENTS

- Avoid breathing product dust.
- Ventilation should be installed to clear any dust formed at source.
- Avoid unnecessary contact with skin and wash work clothes frequently.
- An eye bath should be available near the workplace.
- Avoid moisture.
- Do not store near acids.
- No other special storage requirements.

SECTION X: OTHER

The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, provincial or local regulations. It is the buyer's/user's responsibility to determine the safety, toxicity, and suitability for their own use of the product described herein. Conditions of use are beyond Colors of Nature's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.