

ULTRAMARINE BLUE 02, 03, 05, 05C, 055, 06, 07, 07T, 08, 08B, 08C, 08E, 08S, 08STK, 09, 09T, 10, 1008, 15, 15S, 16, 17, 17C, 17CBAC

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SECTION 1. IDENTIFICATION

Product name : ULTRAMARINE BLUE 02, 03, 05, 05C, 055, 06, 07, 07T, 08, 08B, 08C, 08E, 08S, 08STK, 09, 09T, 10, 1008, 15, 15S, 16, 17, 17C, 17CBAC

Other means of identification : Pigment Blue 29:77007

Manufacturer or supplier's details

Company name of supplier : Venator Materials LLC
Address : 10001 Woodloch Forest Drive
The Woodlands,
TX 77380
United States of America (USA)

Telephone : (001) 844 831 6720
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E-mail address of person responsible for the SDS : msds@venatorcorp.com

Emergency telephone : USA & Canada: +1-800-424-9300 Other Americas: +1-703-741-5970 [CCN 1014536]

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use
Coloring agents, pigments

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Contact with acids liberates hydrogen sulphide, a highly flammable toxic gas.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
C.I.PIGMENT BLUE 29 (C.I. 77007)	101357-30-6	80 - 100
KAOLIN	1332-58-7	0 - 20

C.I. PIGMENT BLUE 29 EU REACH EC# 701-340-9

Substance 101357-30-6 is listed in TSCA as CAS 57455-37-5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	: Consult a physician.
If inhaled	: If breathed in, move person into fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash off with soap and water. Call a physician if irritation develops or persists.
In case of eye contact	: Rinse with water. If eye irritation persists, consult a specialist.
If swallowed	: Rinse mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Eye contact Dust contact with the eyes can lead to mechanical irritation. Inhalation may provoke the following symptoms: Symptoms of Overexposure Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Skin contact may provoke the following symptoms: The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure. Individuals with sensitive skin may experience skin drying on prolonged or repeated exposure.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.
Notes to physician	: No specific measures identified.

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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Dry powder
Carbon dioxide (CO2)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Sulphur Dioxide gas can be liberated if this product undergoes chemical change during a fire sustained by other materials.
- Hazardous combustion products : sulfur dioxide
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Avoid dust formation.
Remove all sources of ignition.
Never return spills in original containers for re-use.
Treat recovered material as described in the section "Disposal considerations".
For disposal considerations see section 13.
- Environmental precautions : No special environmental precautions required.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Avoid creating dusty conditions and prevent wind dispersal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

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Technical measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on protection against fire and explosion	:	Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	Minimize dust generation and accumulation. Avoid formation of respirable particles. Avoid inhalation, ingestion and contact with skin and eyes. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep in a cool, well ventilated place away from acids. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	Keep in a dry place. No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
KAOLIN	1332-58-7	TWA (Respirable particulate matter)	2 mg/m ³	ACGIH
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1

Engineering measures : Ensure adequate ventilation, especially in confined areas.
Use engineering controls to keep exposures below the OEL or DNEL

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates

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that exposures are within recommended exposure guidelines.

Hand protection
Material : Protective gloves complying with EN 374.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Protective measures : Wear suitable protective equipment.

Hygiene measures : Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : blue

Odor : odorless

Odor Threshold : Not applicable

pH : 7 - 9
Concentration: 10 %

Melting point : Not applicable

Initial boiling point and boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper : Not applicable

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flammability limit

Lower explosion limit / Lower : Not applicable
flammability limit

Vapor pressure : Not applicable

Density : 2.35 g/cm³Solubility(ies)
Water solubility : insolubleDecomposition temperature : 752 °F / 400 °C
Decomposes on heating.Viscosity
Viscosity, dynamic : Not applicable

Explosive properties : Not expected to form explosive dust-air mixtures.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: acids
Chemical stability	: Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions	: At temperatures above 400°C/750°F in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide (SO ₂) gas. Contact with acids liberates hydrogen sulphide, a highly flammable toxic gas.

Conditions to avoid : Avoid exposure to extreme temperatures and contact with incompatible chemicals.

Incompatible materials : Acids
Hazardous decomposition : Hydrogen sulphide
products
sulfur dioxide

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****C.I.PIGMENT BLUE 29 (C.I. 77007):**Acute oral toxicity : LD₅₀ (Rat): > 10,000 mg/kg

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Carcinogenicity

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability**Product:**

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with

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Contaminated packaging : chemical or used container.
Dispose of wastes in an approved waste disposal facility.
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

Not regulated as a dangerous good

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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California Prop. 65

WARNING: This product can expose you to chemicals including KAOLIN, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

WARNING: This product can expose you to chemicals including Arsenic (As), Cadmium (Cd), Chromium VI (Cr6+), Cobalt (Co), Lead (Pb), Mercury (Hg) and Nickel (Ni), present as trace impurities and not intentionally added, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
DSL	: On the inventory, or in compliance with the inventory
AIIC	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
CH INV	: On the inventory, or in compliance with the inventory
TECI	: On the inventory, or in compliance with the inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information**

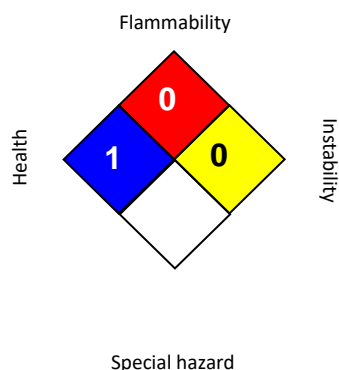
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NFPA 704:**HMIS® IV:**

HEALTH		0
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Sources of key data used to compile the Material Safety Data Sheet : Information taken from reference works and the literature.,
Information derived from practical experience.

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
OSHA Z-1 / TWA : 8-hour time weighted average

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