

Material Safety Data Sheet

(Prepared in accordance with Annex II of the Reach Regulation (EC) 1907/2006, Regulation 2020/878, Regulation EC 1272/2008 & GHS as amended)

1. Identification of the substance / preparation and the company undertaking

Product Name Ultramarine Blue (Silicic acid, aluminum sodium salt, sulfurized)
Pigment Blue 29

Trade Name Navfast Blue 9199-P

CAS # 57455-37-5 / 101357-30-6

Company Navpad Pigments Private Limited.

Address Survey no 2135, Village Rajpur, Ghumasan Patia Road,
Chhatral - Mehsana Highway, Rajpur - 382715, Gujarat, India

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Email sales@navpadpigments.com

2. Hazard Identification

Classification of the substance or mixture

Classification of the substance according to regulation (EC) 1272/2008/GHS

Not classified.

Classification of the substance according to regulation 67/548 /EEC

Not classified.

Label elements

Labelling of the substance according to regulation (EC) 1272/2008/GHS

This product doesn't require hazard labelling according to GHS criteria

Labelling of the substance according to regulation 67/548/EEC

This product doesn't require hazard labelling according to GHS criteria

Other Hazards

This substance is not considered as PBT or vPvB



CIN No: U24220GJ1998PTC033736

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3. Composition information on ingredients

Chemical name	CAS No	Concentration (%)	Impurities
Blue Sodium polysulfide aluminosilicate with a SOD-type framework structure Pigment Blue 29 COLOR INDEX NO. 77007 EC Number- 309-928-3/ 611-533-9	57455-37-5 / 101357-30-6	Mind 98.5 (w/w)	No impurities relevant for classification and labelling

Substance / Mixture: Substance

Synonyms: Ultramarine Blue, Sodium alumino sulfo silicate

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.

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.

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5. Firefighting 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 substance or mixture

Thermal decomposition, temperature above 400 °C, can lead to SO₂ gas release.

Advice for firefighter

Special precautions for fire- fighters

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain

Protection of fire-fighters

The fire fighters should wear full protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode

Other information

Do not get water inside containers/bags. Water spray or fog carefully applied to surface of the burning material can be used to extinguish the fire

Use water spray to prevent dust formation, absorb heat, keep containers cool and protect fire-exposed materials. Cool water spray to flush spills from ignition source.

Exercise caution when fighting any chemical fire

Avoid firefighting water to enter environment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General info

Use protective gloves, safety goggles and protective clothing. Remove ignition sources. Do not touch spilled material unless wearing protective clothing.

Avoid contact with skin and eye

Environmental precautions

Prevent from entering into watercourses, sewage and confined areas

Methods and material for containment and cleaning up

For cleaning up

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel or broom.

Avoid generation and spreading of dust.

Reference to other sections

Additional information

Section 8 for advice on PPE, Section 13 for advice on disposal



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7. Handling and storage

Precautions for safe handling

General info

Do not eat, drink or smoke when using this product.

Good personal hygiene procedures should be implemented

Wash hands and any others contaminated areas of the body with soap and water before leaving the work site.

Avoid inhalation, contact with skin and eyes. Do not handle near incompatible materials.

Use PPE (personal protective equipment)

Conditions for safe storage, including any incompatibilities

Technical measures and

Storage conditions

Keep in the original container in cool, dry, well-ventilated place away from incompatible materials. Keep container from food store locked up, keep out of reach of children
Store away from strong acids

8. Exposure controls / Personal protection

Control Parameters

Occupational exposure limits

- 10 mg/m³, 8 hr TWA (Total dust)
- 5 mg/m³, 8 hr TWA (Respirable dust)

Exposure Controls

Appropriate Engineering controls

- The best protection is to enclose the operation and/or provide local exhaust ventilation at the side of the chemical release
- It is recommended that safety shower and eyebath be available near the work area
- Compressed air lines used for respiratory protection should be provided with purifier
- Wear adequate and proper personal protective equipment
- Do not eat drink or smoke while using this product. Wash hands before eating, drinking, smoking or going to the toilet
- Take off all the contaminated clothing and wash before reuse



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Personal Protective Equipment



- (a) Eye/face protection
- (b) Skin protection

(c) Respiratory protection

Environmental Exposure Controls

- Use protective safety goggles
- Use Latex or PVC gloves. Use safety leather shoes with rubber imperable sole, with protective clothing to the body
- Overalls with long sleeves and hood are recommended
- Full face piece respirator with filter for organic vapours
- In cases of high potential of exposure use a supplied-air respirator, full face piece, operated in positive-pressure mode.
- Prevent entry into drains, sewers and watercourses

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Solid, blue powder
Odor:	Odorless
Ph (10 % Solution):	Above 8.0
Melting point:	> 1000 °C
Boiling point:	Not applicable
Flash point:	Not applicable
Flammability (solid, gas):	Not flammable
Explosive properties:	Not explosive
Vapor pressure at 20°C:	Not applicable
Vapor density:	Not applicable
Density:	2.35 g/cm ³ at 20 °C



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Solubility in water:	Insoluble
Partition coefficient, n-octanol/water	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable
Oxidizing properties:	Not Oxidizing
Other information:	Not applicable

10. Stability and reactivity

Reactivity

- At temperatures above 350°C in presence of air (SO₂) sulfur dioxide gas can be released. Hydrogen sulfide gas may be released in contact with strong acids of pH less than 2.0

Chemical stability

Possibility of hazardous reactions

- Stable under normal conditions of storage
- Hazardous polymerization will not occur

Conditions to avoid

Incompatible materials

Hazardous decomposition products

- Avoid extreme heat. Avoid moisture
- Stable above pH 4.0
- (SO₂) Sulfur dioxide gas and (H₂S) hydrogen sulfide gas



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11. Toxicological Information

Information on toxicological effects

Acute oral Toxicity:	LD50, rat: > 2000 mg/kg bw
Acute inhalation Toxicity:	LC50, rat: > 50 mg/L air
Acute dermal Toxicity:	LD50, rat: > 2000 mg/kg bw
Skin Corrosion / irritation	Not irritating
Respiratory or skin sensitisation	Not sensitizing
Germ cell mutagenicity	No Mutagenic
Carcinogenicity	Non Carcinogenic
Reproductive toxicity	Oral: Noel: 1000 mg/kg bw / day
STOT-Single exposure	No data available
STOT- Repeated exposure	Oral: Noel: 115 mg/kg bw / day
Aspiration toxicity	Not applicable
General information	No specific health hazards known.

12. Ecological Information

Short term toxicity to fish	Himedaka (Latipes) : LC50 (96h) > 90 mg/L
Long term toxicity to fish	In accordance with REACH regulation 1907/2006, Annex IX, column 2, long – term tests on fish need only be conducted if the outcome of the chemical safety assessment indicates such a need.
Short term toxicity to aquatic invertebrates	Daphnia magna : EC50 (48h) > 21mg/L
Long term toxicity to aquatic invertebrates	Daphnia magna : EC10 (21 d) = 2.77mg/L
Toxicity to aquatic algae	Pseudokirchnerella subcapitata : ErC50 (72h) > 100 mg/L , EyC50 (72h) > 100 mg/L
Toxicity to sediment	In accordance with column 2 of REACH Annex X, long-term toxicity testing (required in section 9.5.1) does not need to be conducted since the results of the chemical safety assessment indicate that there is no need to investigate further the effects of the substance and/or relevant degradation products on sediment organisms



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Toxicity to soil macro organisms

- Ultramarine Blue pigment is an inorganic substance considered environmentally and biologically inert due to its physico-chemical properties: low water solubility (endpoint record 4.8) and low partition coefficient (Kow) (endpoint record 4.7), that indicates a low bioavailability. The poor water solubility and low partition coefficient of the Ultramarine Blue pigment is expected to determine its behaviour and fate in the environment, and subsequently its potential for ecotoxicity.
- In this sense, Ultramarine Blue pigment is not classified as dangerous for the aquatic environment, an aquatic PNEC is not required, thus not indicating a hazard to the aquatic environment. In these circumstances there are also no unclassified hazards to the soil compartment because toxicity to aquatic organisms is used as an indicator of concern for soil organisms and a screening risk characterization (using the equilibration partitioning method to derive a PNEC for soil) does not need to be undertaken either. Thus, Ultramarine Blue pigment does not have a “non-classified hazard” potential to the soil compartment.

Resulting on PNEC's

Water

Sediment

Soil

- PNEC aqua (freshwater): 0.52 mg/L (Assessment factor 50)
- Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption.
- Koc value not applicable. Based on the physicochemical properties the substance can be expected to have a low potential for adsorption
- Not P/vP based on ready biodegradability: The biodegradation in water study does not need to be conducted, as the substance is an inorganic substance.
- The substance has low potential for bioaccumulation a (log Kow < 3) as it is an inorganic substance.
- Ultramarine Blue is readily biodegradable in water and mobility is not expected to be of concern.
- The substance is not fulfilling the criteria for Persistence, Bioaccumulation and Toxicity (PBT)
- None
- None

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Endocrine disruptive properties

12.7. Other adverse effects



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13. Disposal considerations

Waste treatment methods

General information

- Prior to implementing land disposal of waste residue (including waste sludge), consult local legislation for adequate disposal methods.
- Empty containers can retain product residues and shall be disposed in accordance with the provisions proposed for the product.

14. Transport Information

UN number

- Not regulated

UN proper shipping name

- Not regulated

Transport hazard class

- Not classified as a dangerous good under transport guidelines

Packing group

- Not regulated

Environmental hazards

- None

Special precautions for user

- None

Transport in bulk according to

- Not applicable

ANNEX II of MARPOL 73/78

And the IBC code.

15. Regulatory Information

Safety, health and environmental regulations/regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

- Pigment blue 29 (Ultramarine blue) is not listed as SVHC so far

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Restrictions on use

- No restrictions

USFDA

- Ultramarine blue is cleared in 21 CFR:
- Part 73 under § 73.50 (color additives approved for use in human food / salt intended for animal feed)
- Part 73 under § 73.2725 (color additives approved for use in cosmetics / externally applied cosmetics including eye area use)
- Part 178 under § 178.3297 (colorants for polymers)



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- Part 177 under § 177.2600 (colorants in rubber articles intended for repeated use)

Inventories

The substances is listed in

- | | |
|--------------------------|---|
| EINECS | - European Inventory of Existing Commercial Chemical Substances |
| DSL | - Domestic Substances List (Canada) |
| AICS | - Australian Inventory of Chemical Substances |
| MITI / ENCS | - Japanese Existing and New Chemical Substances |
| KTCCL / MEO / ECL | - Korean Existing Chemicals List |
| PICCS | - Philippines Inventory of Chemicals and Chemical Substances |
| IECSC | - Chinese Chemical Inventory of Existing Chemical Substances |
| NZIoC | - New-Zealand Inventory of Chemicals |
| TSCA Section (8b) | - Toxic Substances Control Act |
| Swiss ChemO | - Switzerland Chemical Ordinance |
| NESCI | - Taiwan National Existing Chemical Inventory |
| NCI | - Vietnam National Chemical Inventory |

Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance. A detailed Chemical Safety Report is available for this substance

- | | |
|-----------------------------|--|
| SARA Title III Rules | - Section 302 – Extremely Hazardous Substances: None |
| | - Section 304 – CERCLA Hazardous Substances: None |
| | - Section 311 / 312 – EPCRA (Hazard classes) |
| | - Immediate Toxicity (Acute) : None |
| | - Delayed Toxicity (Chronic) : None |
| | - Fire Hazard : None |
| | - Release of Pressure : None |
| | - Reactivity : None (Stable under normal condition) |

List of Abbreviations used in this SDS

- | | |
|--------------|---|
| CAS | - Chemical Abstracts Service |
| CLP | - Classification, Labeling and Packaging Regulation (EC) no 1272/2008 |
| DSD | - Dangerous Substances Directive 67/548/EEC |
| EC | - European Commission |
| NOAEL | - No Observed Adverse Effect Level |

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- | | |
|--------------|---|
| PBT | - Persistent, Bio-accumulative and Toxic to reproduction |
| REACH | - Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EC) no 1907/2006 |
| vPvB | - very Persistent, very Bio-accumulative |

Training requirements for workers

No special training requirements identified

16. Other information

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| vPvB | - very Persistent, very Bio-accumulative |

Training requirements for workers

No special training requirements identified

Disclaimer

The information provided in this safety data sheet is given in good faith and is correct to the best of our knowledge and information at the date of publication. It is designed only as guidance for safe handling, storage, transportation, use and disposal. No warranty is expressed (or) implied.



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