

# Fortified Plexipave Bruin Blue - 5541 ICP Construction Inc.

Version No: 4.3

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **08/02/2023** Print Date: **08/02/2023** S.GHS.USA.EN

#### **SECTION 1 Identification**

#### Product Identifier

Product name	Fortified Plexipave Bruin Blue - 5541	
Synonyms	5541	
Other means of identification	Not Available	

#### Recommended use of the chemical and restrictions on use

Relevant identified uses	Sports Surfaces

#### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc.
Address	150 Dascomb Road Andover, MA 01810 United States
Telephone	1-866-667-5119 1-978-623-9987
Fax	Not Available
Website	www.icpgroup.com
Email	sds@icpgroup.com

#### Emergency phone number

Asse	ociation / Organisation	ChemTel
	Emergency telephone numbers	1-800-255-3924
Other	emergency telephone numbers	1-813-248-0585

# SECTION 2 Hazard(s) identification

# Classification of the substance or mixture NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Carcinogenicity Category 1A, Specific Target Organ Toxicity - Repeated Exposure Category 2

# Label elements

Hazard pictogram(s)



Signal word

Dange

# Hazard statement(s)

. ,	
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

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#### Fortified Plexipave Bruin Blue - 5541

Hazard(s) not otherwise classified

Not Applicable

#### Precautionary statement(s) Prevention

P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P280	Wear protective gloves and protective clothing.	
P202	Do not handle until all safety precautions have been read and understood.	

#### Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
P314	Get medical advice/attention if you feel unwell.

#### Precautionary statement(s) Storage

P405 Store locked up.

#### Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
107-21-1	1-5	ethylene glycol
13463-67-7*	0.1-1	<u>Titanium Dioxide Ti02</u>
1333-86-4	0.1-1	carbon black
14808-60-7*	15-40	silica crystalline - quartz
14464-46-1	1-5	cristobalite

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

# **SECTION 4 First-aid measures**

#### Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

#### **SECTION 5 Fire-fighting measures**

# Extinguishing media

- Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).

### Special hazards arising from the substrate or mixture

Fire Incompatibility F Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result Version No: **4.3** Page **3** of **10** Issue Date: **08/02/2023** 

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# Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul>

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

	¥ ·
Minor Spills	Remove all ignition sources.     Clean up all spills immediately.     Avoid breathing vapours and contact with skin and eyes.
Major Spills	Moderate hazard.  Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

Precautions	for	safe	handling

Safe handling	Avoid all personal contact, including inhalation.      Wear protective clothing when risk of exposure occurs.      Use in a well-ventilated area.      DO NOT allow clothing wet with material to stay in contact with skin
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> </ul>

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

<b>.</b> .	
Suitable container	<ul> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	► Avoid reaction with oxidising agents

# SECTION 8 Exposure controls / personal protection

# **Control parameters**

## Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US NIOSH Recommended Exposure Limits (RELs)	ethylene glycol	Ethylene glycol	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	Titanium Dioxide Ti02	Titanium dioxide - Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	Titanium Dioxide Ti02	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	Titanium Dioxide Ti02	Titanium dioxide	Not Available	Not Available	Not Available	Ca; See Appendix A
US OSHA Permissible Exposure Limits (PELs) Table Z-1	carbon black	Carbon black	3.5 mg/m3	Not Available	Not Available	Not Available

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Source	Ingredient	Material name	TV	VA	STEL	Peak	Notes		
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Dust: Respirable 5 mg/m3 / 15 mppct		Not Available	Not Available	Not Available			
US OSHA Permissible Exposure Limits (PELs) Table Z-3	carbon black	Inert or Nuisance Dust: Total Dust	· ·		Not Available	Not Available	Not Available		
US NIOSH Recommended Exposure Limits (RELs)	carbon black	Carbon black 3.5 mg/m3		Not Available	Not Available	Ca; TWA 0.1 mg PAHs/m3 [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)] See Appendix A Se Appendix C			
US OSHA Permissible Exposure Limits (PELs) Table Z-1	silica crystalline - quartz	Quartz - respirable	Quartz - respirable () 05 mg/m3		Not Available	Not Available	Not Available		
US OSHA Permissible Exposure Limits (PELs) Table Z-3	silica crystalline - quartz	Silica: Crystalline: Quartz (Respirable)	mg	(%SiO2+2) g/m3 / 250 SiO2+5) mppcf	Not Available	Not Available	Not Available		
US NIOSH Recommended Exposure Limits (RELs)	silica crystalline - quartz	Silica, crystalline (as respirable dust)	0.0	05 mg/m3	Not Available	Not Available	Ca; See Appendix A		
US OSHA Permissible Exposure Limits (PELs) Table Z-1	cristobalite	Cristobalite - respirable	0.0	05 mg/m3	Not Available	Not Available	Not Available		
US OSHA Permissible Exposure Limits (PELs) Table Z-3	cristobalite	Silica: Crystalline: Cristobalite	No	t Available	Not Available	Not Available	Use ½ the value calculated from the count or mass formulae for quartz.		
US NIOSH Recommended Exposure Limits (RELs)	cristobalite	Particulates not otherwise regulated	No	t Available	Not Available	Not Available	See Appendix D		
Emergency Limits									
Ingredient	TEEL-1			TEEL-2			TEEL-3		
ethylene glycol	30 ppm			150 ppm			900 ppm		
Titanium Dioxide Ti02	30 mg/m3			330 mg/m3			2,000 mg/m3		
carbon black	9 mg/m3			99 mg/m3			590 mg/m3		
silica crystalline - quartz	0.075 mg/m3			33 mg/m3			200 mg/m3		
cristobalite	0.075 mg/m3					200 mg/m3			
Ingredient	Original IDLH					Revised	IDLH		
ethylene glycol	Not Available								
Titanium Dioxide Ti02	5,000 mg/m3					-	Not Available		
carbon black	1,750 mg/m3					Not Avai			
silica crystalline - quartz	25 mg/m3 / 50 r	ng/m3					Not Available		
cristobalite	Not Available						Not Available		
xposure controls	1								
Appropriate engineering controls	be highly effecti The basic types		will ty	ypically be independ	dent of worker	interactions t	hazard. Well-designed engineering controls coprovide this high level of protection.		
Individual protection measures, such as personal protective equipment									
Eye and face protection	► Chemical g	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.</li> </ul>							
Skin protection	Soo Hand proto								

Wear safety footwear or safety gumboots, e.g. Rubber
The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when

# Respiratory protection

Skin protection

Hands/feet protection

**Body protection** 

Other protection

▶ Wear chemical protective gloves, e.g. PVC.

and has therefore to be checked prior to the application.

See Hand protection below

making a final choice.

Overalls.

P.V.C apron. ▶ Barrier cream.

See Other protection below

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If inhalation risk above the TLV exists, wear approved dust respirator.

Use respirators with protection factors appropriate for the exposure level.

- lacktriangle Up to 5 X TLV, use valveless mask type; up to 10 X TLV, use 1/2 mask dust respirator
- ▶ Up to 50 X TLV, use full face dust respirator or demand type C air supplied respirator
- Up to 500 X TLV, use powered air-purifying dust respirator or a Type C pressure demand supplied-air respirator
- Over 500 X TLV wear full-face self-contained breathing apparatus with positive pressure mode or a combination respirator with a Type C positive pressure supplied-air full-face respirator and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode
- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

mormation on bacic physical	information on basic physical and chemical properties			
Appearance	Not Available			
Physical state	Liquid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available	
Flash point (°C)	>130	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Applicable	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	73	

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

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Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Skin Contact Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort Eve characterised by tearing or conjunctival redness (as with windburn). Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Chronic Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. Crystalline silicas activate the inflammatory response of white blood cells after they injure the lung epithelium. Chronic exposure to crystalline silicas reduces lung capacity and predisposes to chest infections. TOXICITY IRRITATION Fortified Plexipave Bruin Blue - 5541 Not Available Not Available TOXICITY IRRITATION dermal (mouse) LD50: >3500 mg/kg<sup>[1]</sup> Eye (rabbit): 100 mg/1h - mild Oral (Rat) LD50: >2000 mg/kg[2] Eye (rabbit): 12 mg/m3/3D Eye (rabbit): 1440mg/6h-moderate ethylene alycol Eye (rabbit): 500 mg/24h - mild Eye: no adverse effect observed (not irritating)[1] Skin (rabbit): 555 mg(open)-mild Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION dermal (hamster) LD50:  $>=10000 \text{ mg/kg}^{[2]}$ Eye: no adverse effect observed (not irritating)<sup>[1]</sup> **Titanium Dioxide Ti02** Inhalation(Rat) LC50: >2.28 mg/l4h[1] Skin: no adverse effect observed (not irritating)<sup>[1]</sup> Oral (Rat) LD50: >=2000 mg/kg[1] TOXICITY IRRITATION Dermal (rabbit) LD50: >2000 mg/kg<sup>[1]</sup> Eye: no adverse effect observed (not irritating)[1] carbon black Oral (Rat) LD50: >2000 mg/kg[1] Skin: no adverse effect observed (not irritating)<sup>[1]</sup> TOXICITY IRRITATION Inhalation (Human)LCLo: 0.3 mg/m3/10Y[2] Not Available silica crystalline - quartz Inhalation (Human)TCLo: 16 mppcf\*/8H/17.9Y[2] Inhalation (Rat)TCLo: 50 mg/m3/6H/71W[2] TOXICITY IRRITATION cristobalite Not Available Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances Fortified Plexipave Bruin Blue Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of - 5541 producing mutation [Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells. ETHYLENE GLYCOL Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. Following absorption, it is distributed throughout the body. Inhalation (rat) TCLo: 50 mg/m3/6h/90D-I Nil reported No significant acute toxicological data identified in literature search. **CARBON BLACK** WARNING: This substance has been classified by the IARC as Group 2B; Possibly Carcinogenic to Humans CRISTOBALITE Inhalation (human) TCLo: 16 mppcf\*/8H/17.9y-I \* Millions of particles per cubic foot WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for silica crystalline - quartz & the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung **CRISTOBALITE** disease. Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours, \* Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE: the physical nature of quartz in the product determines whether it is likely to present a chronic health problem.

Carcinogenicity

**Acute Toxicity** 

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	•		
Skin Irritation/Corrosion	X	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	<b>✓</b>
Mutagenicity	×	Aspiration Hazard	×

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

Fortified Blooks are Busin Bloo	Endpoint	Test Duration (hr)	Species		Value	Source
Fortified Plexipave Bruin Blue - 5541	Not Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Va	lue	Source
	EC50	96h	Algae or other aquatic plants	65	00-13000mg/l	1
ethylene glycol	EC50	48h	Crustacea	>1	00mg/l	2
	LC50	96h	Fish	80	50mg/l	4
	EC50(ECx)	Not Available	Algae or other aquatic plants	65	00-7500mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
	BCF	1008h	Fish		<1.1-9.6	7
	EC50	72h	Algae or other aquatic plants		3.75-7.58mg/l	4
Titanium Dioxide Ti02	EC50	48h	Crustacea		1.9mg/l	2
	EC50	96h	Algae or other aquatic plants	Algae or other aquatic plants 1		2
	LC50	96h	Fish	Fish 1		4
	NOEC(ECx)	672h	Fish		>=0.004mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	•	Sourc
	EC50	72h	Algae or other aquatic plants	>0.2r	ng/l	2
carbon black	EC50	48h	Crustacea	33.07	'6-41.968mg/l	4
	LC50	96h	Fish	>100	mg/l	2
	NOEC(ECx)	24h	Crustacea	3200	mg/l	1
	Endpoint	Test Duration (hr)	Species		Value	Source
silica crystalline - quartz	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species		Value	Source
cristobalite	Not Available	Not Available	Not Available		Not Available	Not Availabl
Legend:	Ecotox databa		CHA Registered Substances - Ecotoxicological Inf C Aquatic Hazard Assessment Data 6. NITE (Japa			

# DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)	
Titanium Dioxide Ti02	HIGH	HIGH	

# Bioaccumulative potential

Ingredient	Bioaccumulation
ethylene glycol	LOW (BCF = 200)
Titanium Dioxide Ti02	LOW (BCF = 10)

# Mobility in soil

Ingredient	Mobility
ethylene glycol	HIGH (KOC = 1)
Titanium Dioxide Ti02	LOW (KOC = 23.74)

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#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible

#### Otherwise

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.

#### **SECTION 14 Transport information**

#### Labels Required

Marine Pollutant NO

Shipping container and transport vehicle placarding and labeling may vary from the below information. Products that are regulated for transport will be packaged and marked as Dangerous Goods in Limited Quantities according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
ethylene glycol	Not Available
Titanium Dioxide Ti02	Not Available
carbon black	Not Available
silica crystalline - quartz	Not Available
cristobalite	Not Available

#### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethylene glycol	Not Available
Titanium Dioxide Ti02	Not Available
carbon black	Not Available
silica crystalline - quartz	Not Available
cristobalite	Not Available

# **SECTION 15 Regulatory information**

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

# ethylene glycol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity

US - California Proposition 65 - Reproductive Toxicity

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

Titanium Dioxide Ti02 is found on the following regulatory lists

US Clean Air Act - Hazardous Air Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1
US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### carbon black is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

 $\mbox{US}$  - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

#### silica crystalline - quartz is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US National Toxicology Program (NTP) 15th Report Part A Known to be Human Carcinogens

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# cristobalite is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Carcinogens Listing

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# **Federal Regulations**

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Section 311/312 hazard categories

	No	
Flammable (Gases, Aerosols, Liquids, or Solids)		
Gas under pressure	No	
Explosive	No	
Self-heating	No	
Pyrophoric (Liquid or Solid)	No	
Pyrophoric Gas	No	
Corrosive to metal	No	
Oxidizer (Liquid, Solid or Gas)	No	
Organic Peroxide	No	
Self-reactive Self-reactive	No	
In contact with water emits flammable gas	No	
Combustible Dust		
Carcinogenicity		
Acute toxicity (any route of exposure)		
Reproductive toxicity	No	
Skin Corrosion or Irritation	No	
Respiratory or Skin Sensitization		
Serious eye damage or eye irritation		

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#### Fortified Plexipave Bruin Blue - 5541

Yes Specific target organ toxicity (single or repeated exposure) Aspiration Hazard No Germ cell mutagenicity No Simple Asphyxiant No Hazards Not Otherwise Classified No

#### US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
ethylene glycol	5000	2270

# State Regulations

#### US. California Proposition 65



MARNING: This product can expose you to chemicals including Titanium Dioxide Ti02, carbon black, silica crystalline - quartz, cristobalite, which are known to the State of California to cause cancer, and ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to

#### National Inventory Status

National inventory Status	
National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ethylene glycol; Titanium Dioxide Ti02; carbon black; silica crystalline - quartz; cristobalite)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

### **SECTION 16 Other information**

Revision Date	08/02/2023
Initial Date	07/30/2023

#### CONTACT POINT

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.3	08/02/2023	Hazards identification - Classification, Composition / information on ingredients - Ingredients

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

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<sup>\*\*</sup>PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*