

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 1 of 19
Print Date 01/02/2026

SAFETY DATA SHEET

SILCOPAS BLUE 46151**Section 1. Identification**

GHS product identifier : SILCOPAS BLUE 46151
Chemical name : Mixture
CAS number : Mixture
Other means of identification : FO20037803
Product type : liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications. Plastics.

Supplier's details : **GSDI Specialty Dispersions, Inc.**
1675 Navarre Road SW, Massillon,
Ohio USA 44646

1 (440) 930-1000 or 1 (844) 4AVIENT

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1

Revision Date 01/01/2026

Page 2 of 19

Print Date 01/02/2026

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise classified : None known.

Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : SILCOPAS BLUE 46151
Other means of identification : SILCOPAS BLUE 46151

Ingredient name	Synonyms	%	Identifiers
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li2O, or TiO2.	Cobalt aluminate blue spinel	>= 10 - <= 30	CAS: 1345-16-0
Titanium oxide	Titanium dioxide	>= 1 - <= 5	CAS: 13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures**Description of necessary first aid measures**

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 3 of 19
Print Date 01/02/2026

- Inhalation** : medical attention if irritation occurs.
: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out 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 medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures**Extinguishing media**

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 4 of 19
Print Date 01/02/2026

- | | | |
|---|---|---|
| Suitable extinguishing media | : | In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . |
| Unsuitable extinguishing media | : | None known. |
| Specific hazards arising from the chemical | : | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | : | Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, halogenated compounds, metal oxide/oxides |
| Special protective actions for fire-fighters | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

- | | | |
|------------------------------------|---|---|
| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

Methods and materials for containment and cleaning up

- | | | |
|--------------------|---|---|
| Small spill | : | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container |

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 5 of 19
Print Date 01/02/2026

for disposal according to local regulations.

Section 7. Handling and storage**Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection**Control parameters****Occupational exposure limits**

Ingredient name	Exposure limits
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li ₂ O, or TiO ₂ .	ACGIH TLV (2019-03-26). [cobalt and inorganic compounds as Co] A3. Inhalation sensitizer. Skin sensitizer. TWA 8 hours: 0.02 mg/m ³ (as Co)
Titanium oxide	CAL OSHA PEL (2018-05-16). [titanium dioxide as Ti] TWA 8 hours: 10 mg/m ³ (as Ti) Form: Total dust TWA 8 hours: 5 mg/m ³ (as Ti) Form: Respirable fraction

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 6 of 19
Print Date 01/02/2026

	ACGIH TLV (2022-01-06). [titanium dioxide finescale particles] A3. TWA 8 hours: 2.5 mg/m3 Form: respirable fraction, finescale particles ACGIH TLV (2022-01-06). [titanium dioxide nanoscale particles] A3. TWA 8 hours: 0.2 mg/m3 Form: respirable fraction, nanoscale particles OSHA PEL 1989 (1989-03-01). [Titanium dioxide] TWA 8 hours: 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30). [Titanium dioxide] TWA 8 hours: 15 mg/m3 Form: Total dust
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Biological exposure indices

Ingredient name	Exposure indices
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li2O, or TiO2.	ACGIH BEI (2012-03-05) [cobalt and inorganic compounds including cobalt oxides] BEI - 15 µg/l, not combined with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek ACGIH BEI (2012-03-05) [cobalt and inorganic compounds including cobalt oxides] BEI - [Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI® could not be determined due to insufficient data.], cobalt with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 7 of 19
Print Date 01/02/2026

Eye/face protection	: showers are close to the workstation location. : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
<u>Skin protection</u>	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: liquid [Paste.]
Color	: BLUE
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not available.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability	: Not available.

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 8 of 19
Print Date 01/02/2026

Lower and upper explosion limit/flammability limit	:	Lower: Not available. Upper: Not available.
Vapor pressure	:	Not available.
Relative vapor density	:	Not available.
Relative density	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic : Not available. Kinematic : Not available.

Particle characteristics

Median particle size	:	Not applicable.
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Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information**Information on toxicological effects**

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 9 of 19
Print Date 01/02/2026

Acute toxicity

Product/ingredient name	Result
Titanium oxide	Rabbit - Dermal - LD50 > 5,000 mg/kg Rat - Male - Inhalation - LC50 Dusts and mists 6.82 Mg/l [4 h]

Conclusion/Summary : Mixture.Not fully tested.

Skin corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Serious eye damage/eye irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory or skin sensitization**Skin**

Conclusion/Summary : Mixture.Not fully tested.

Respiratory

Conclusion/Summary : Mixture.Not fully tested.

Germ cell mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 10 of 19
Print Date 01/02/2026

Classification

Product/ingredient name	OSHA	IARC	NTP
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li ₂ O, or TiO ₂ .	-	2B	Reasonably anticipated to be a human carcinogen.
Titanium oxide	-	2B	-

Reproductive toxicity

Conclusion/Summary : Mixture. Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 11 of 19
Print Date 01/02/2026

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Mixture. Not fully tested.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Titanium oxide	N/A	N/A	N/A	N/A	6.82 Mg/l

Section 12. Ecological information

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 12 of 19
Print Date 01/02/2026

Toxicity

Product/ingredient name	Result
Titanium oxide	Acute LC50 Marine water Fish - <i>Fundulus heteroclitus</i> > 1,000 Mg/l [96 h] Acute LC50 Fresh water Crustaceans - <i>Ceriodaphnia dubia</i> 3 Mg/l [48 h] Acute LC50 Fresh water Daphnia - <i>Daphnia pulex</i> 6.5 Mg/l [48 h]

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Conclusion/Summary : Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1

Revision Date 01/01/2026

Page 13 of 19

Print Date 01/02/2026

requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

U.S.DOT 49CFR : Not regulated for transportation.
Ground/Air/Water

IATA : Consult mode specific transport rules

IMDG : Consult mode specific transport rules

Section 15. Regulatory information**U.S. Federal regulations****TSCA 8(a) CDR Exempt/Partial exemption:** Not determined**TSCA 8(a) - Preliminary assessment report (PAIR):** Decamethylcyclopentasiloxane;
Octamethylcyclotetrasiloxane; Dodecamethylcyclohexasiloxane;**TSCA 12(b) - Chemical export notification**

Clean Air Act Section 112(b) : Listed
Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I : Not listed
Substances

Clean Air Act Section 602 Class : Not listed
II Substances

DEA List I Chemicals (Precursor : Not listed
Chemicals)

DEA List II Chemicals (Essential : Not listed
Chemicals)

SARA 302/304**Composition/information on ingredients**

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 14 of 19
Print Date 01/02/2026

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

Name	%	Classification
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li ₂ O, or TiO ₂ .	>= 10 - <= 30	CARCINOGENICITY - Category 2

SARA 313**Form R - Reporting requirements**

Product name	CAS number	%
C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li ₂ O, or TiO ₂ .	1345-16-0	>= 10 - <= 30

Supplier notification

Product name	CAS number	%
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SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1

Revision Date 01/01/2026

Page 15 of 19

Print Date 01/02/2026

C.I. Pigment Blue 28 An inorganic pigment that is the reaction product of high temperature calcination in which cobalt (II) oxide and aluminum oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, ZnO, Li ₂ O, or TiO ₂ .	1345-16-0	>= 10 - <= 30
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SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	:	The following components are listed: Titanium oxide
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: COBALT compounds TITANIUM DIOXIDE
Pennsylvania	:	The following components are listed: COBALT COMPOUNDS TITANIUM OXIDE

California Prop. 65

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

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals****Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

SAFETY DATA SHEET

SILCOPAS BLUE 46151

Version Number 1.1

Revision Date 01/01/2026

Page 16 of 19

Print Date 01/02/2026

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1

Revision Date 01/01/2026

Page 17 of 19

Print Date 01/02/2026

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: All components are listed or exempted.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted. All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	All components are listed or exempted.

Section 16. Other information**Hazardous Material Information System (U.S.A.)**

Health	/	0
Flammability		0
Physical hazards		0

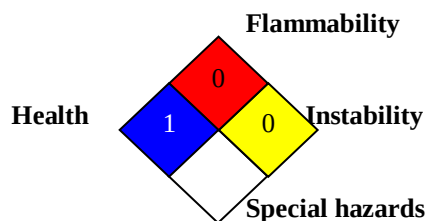
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

SAFETY DATA SHEET**SILCOPAS BLUE 46151**

Version Number 1.1
Revision Date 01/01/2026

Page 18 of 19
Print Date 01/02/2026

National Fire Protection Association (U.S.A.)**Procedure used to derive the classification**

Not classified.

History

Date of printing	:	01/02/2026
Date of issue/Date of revision	:	01/01/2026
Date of previous issue	:	04/26/2016
Version	:	1.1
Prepared by	:	MHATRED
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor DOT = Department of Transportation GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group TDG = Transportation of Dangerous Goods UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

SILCOPAS BLUE 46151

Version Number 1.1

Revision Date 01/01/2026

Page 19 of 19

Print Date 01/02/2026