

# **BLUE CARBON SPARKLE GP22 V2**

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# SAFETY DATA SHEET

#### **BLUE CARBON SPARKLE GP22 V2**

# **Section 1. Identification**

**GHS product identifier** : BLUE CARBON SPARKLE GP22 V2

Chemical name: MixtureCAS number: MixtureOther means of identification: CC10419904

**Product type** : solid

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

**Product use** : Industrial applications.

Supplier's details : AVIENT CORPORATION

33587 Walker Road, Avon Lake, OH 44012

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** 

Prevention: Not applicable.Response: Not applicable.Storage: Not applicable.

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**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** : BLUE CARBON SPARKLE GP22 V2 **Other means of identification** : BLUE CARBON SPARKLE GP22 V2

Ingredient name	Synonyms	%	Identifiers
Formamide, N,N'-1,6-hexanediylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	N,N'-1,6-hexanediylbis(N-(2,2,6,6-tetramethyl-piperidin-4-yl)-formamide	>= 1 - <= 5	CAS: 124172- 53-8
Benzene, ethyl-	ethylbenzene	> 0 - <= 1	CAS: 100-41-4
Styrene	styrene	> 0 - <= 1	CAS: 100-42-5

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 medical attention if irritation occurs.
Inhalation	:	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



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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**

Suitable extinguishing media Unsuitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

: None known.

Specific hazards arising from the

: No specific fire or explosion hazard.

chemical Hazardous thermal decomposition

Decomposition products may include the following materials: carbon

products dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, metal

oxide/oxides

Special protective actions for fire-

Promptly isolate the scene by removing all persons from the vicinity of



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fighters

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 selfcontained 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 : Move containers from spill area. Vacuum or sweep up material and

place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

Large spill : Move containers from spill area. Prevent entry into sewers, water

courses, basements or confined areas. Vacuum or sweep up material

and place in a designated, labeled waste container. Dispose of via a

licensed waste disposal contractor.

# Section 7. Handling and storage

#### **Precautions for safe handling**

Protective measures Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

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.



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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
Formamide, N,N'-1,6-hexanediylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	None.
Benzene, ethyl-	CAL OSHA PEL (2018-05-16). [ethylbenzene] TWA 8 hours: 22 mg/m3 5 ppm STEL 15 minutes: 130 mg/m3 30 ppm ACGIH TLV (2022-01-06). [ethyl benzene] A3. Ototoxicant. TWA 8 hours: 20 ppm NIOSH REL (2010-09-01). [ETHYL BENZENE] STEL 15 minutes: 545 mg/m3 125 ppm TWA 10 hours: 435 mg/m3 100 ppm OSHA PEL 1989 (1989-03-01). [Ethyl benzene] STEL 15 minutes: 545 mg/m3 125 ppm TWA 8 hours: 435 mg/m3 100 ppm OSHA PEL (1993-06-30). [Ethyl benzene] TWA 8 hours: 435 mg/m3 100 ppm
Styrene	CAL OSHA PEL (2018-05-16). [styrene (monomer)] Absorbed through skin.  TWA 8 hours: 215 mg/m3 50 ppm  CEIL: 500 ppm  STEL 15 minutes: 425 mg/m3 100 ppm  ACGIH TLV (2020-03-01). [styrene] A3. Ototoxicant.  STEL 15 minutes: 20 ppm  TWA 8 hours: 10 ppm  NIOSH REL (2010-09-01). [STYRENE]  STEL 15 minutes: 425 mg/m3 100 ppm  TWA 10 hours: 215 mg/m3 50 ppm  OSHA PEL 1989 (1989-03-01). [Styrene]



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STEL 15 minutes: 425 mg/m3 100 ppm TWA 8 hours: 215 mg/m3 50 ppm OSHA PEL Z2 (1993-06-30). [Styrene] PEAK 5 minutes: 600 ppm CEIL: 200 ppm TWA 8 hours: 100 ppm
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## **Biological exposure indices**

Ingredient name	Exposure indices
Benzene, ethyl-	ACGIH BEI (2024-01-18) [ethyl benzene]
	BEI - 150 mg/g creatinine, sum of mandelic acid and phenylglyoxylic
	acid [in urine]. Sampling time: end of shift

**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 showers are close to the workstation location.

Eye/face protection

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.

**Skin protection** 

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



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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 : solid [Pellets.]

Color : GREY

Odor : Faint odor.

**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 applicable.

**Evaporation rate** : Not available. **Flammability** : Not available.

Lower and upper explosion : Lower: Not applicable. limit/flammability limit : Upper: Not applicable.

Vapor pressure: Not available.Relative vapor density: Not applicable.Relative density: Not available.Solubility in water: insoluble in water.Partition coefficient: n-: Not applicable.

octanol/water

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** : Not available.

Viscosity : Dynamic : Not available.

**Kinematic**: Not available.

#### **Particle characteristics**



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**Median particle size** : Not available.

# 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**

#### **Acute toxicity**

Product/ingredient name	Result
Benzene, ethyl-	Rat - Oral - LD50 3,500 mg/kg Rabbit - Dermal - LD50 5,000 mg/kg
Styrene	Rat - Oral - LD50  2,650 mg/kg  Rat - Inhalation - LC50 Gas.  2770 ppm [4 h]  Rat - Inhalation - LC50 Vapor  11.8 Mg/l [4 h]



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**Conclusion/Summary[Product]** : Mixture.Not fully tested.

### Skin corrosion/irritation

Product/ingredient name	Result
Benzene, ethyl-	Rabbit - Skin - Mild irritant
	<u>Duration of treatment/exposure</u> : 24 hrs
Styrene	Rabbit - Skin - Mild irritant
	Rabbit - Skin - Moderate irritant

Conclusion/Summary [Product] : Mixture. Not fully tested.

#### Serious eye damage/eye irritation

Product/ingredient name	Result
Benzene, ethyl-	Rabbit - Eyes - Severe irritant
Styrene	Human - Eyes - Mild irritant Rabbit - Eyes - Severe irritant Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hrs

**Conclusion/Summary[Product]** : Mixture.Not fully tested.

**Respiratory corrosion/irritation** 

**Conclusion/Summary[Product]** : Mixture.Not fully tested.

Respiratory or skin sensitization

Skin

**Conclusion/Summary[Product]** : Mixture.Not fully tested.

Respiratory

**Conclusion/Summary[Product]** : Mixture.Not fully tested.

**Germ cell mutagenicity** 

**Conclusion/Summary[Product]** : Mixture.Not fully tested.



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#### **Carcinogenicity**

**Conclusion/Summary[Product]** : Mixture.Not fully tested.

#### Classification

Product/ingredient name	OSHA	IARC	NTP
Benzene, ethyl-	-	2B	-
Styrene	-	2A	Reasonably anticipated to be a human carcinogen.

#### **Reproductive toxicity**

**Conclusion/Summary Product** : Mixture. Not fully tested.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Formamide, N,N'-1,6-	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
hexanediylbis[N-(2,2,6,6-	(Respiratory tract irritation) - Category 3
tetramethyl-4-piperidinyl)-	

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result
Benzene, ethyl-	ASPIRATION HAZARD - Category 1

#### 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.Ingestion: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

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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[Product]** : 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)
Benzene, ethyl-	3500 mg/kg	5000 mg/kg	N/A	N/A	N/A
Styrene	2650 mg/kg	N/A	2770 ppm	11.8 Mg/l	N/A

# Section 12. Ecological information

# **Toxicity**



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Product/ingredient name	Result	
BLUE CARBON SPARKLE GP22 V2	<b>Remarks:</b> Chemicals are not readily available as they are bound within the polymer matrix.	
Benzene, ethyl-	within the polymer matrix.  Acute LC50 Fresh water Fish - Oncorhynchus mykiss 4.2 Mg/l [96 h]  Acute EC50 Marine water Crustaceans - Artemia sp. 6.53 Mg/l [48 h]  Acute EC50 Fresh water Daphnia - Daphnia magna 2.93 Mg/l [48 h]  Acute EC50 Marine water Algae - Skeletonema costatum 4.9 Mg/l [72 h]  Acute EC50 Marine water Algae - Skeletonema costatum 7.7 Mg/l [96 h]	
Styrene	Acute LC50 Fresh water Fish - Pimephales promelas 4.02 Mg/l [96 h] Acute EC50 Fresh water Daphnia - Daphnia magna 0.0047 Mg/l [48 h] Acute LC50 Marine water Crustaceans - Artemia salina 52 Mg/l [48 h] Acute EC50 Marine water Algae - Skeletonema costatum 78 Mg/l [96 h]	

**Conclusion/Summary | Product |** Not available.

# Persistence and degradability

Not available.

**Conclusion/Summary[Product]** : Chemicals are not readily available as they are bound within the

polymer matrix.

# **Bioaccumulative potential**

Product/ingredient name L	LogPow	BCF	Potential
Formamide, N,N'-1,6-	).8	-	Low



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hexanediylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-			
Benzene, ethyl-	3.6	-	Low
Styrene	2.96	13.49	Low

#### Mobility in soil

Soil/Water partition coefficient

Not available.

Chemicals are not readily available as they are bound within the **Mobility** 

polymer matrix.

#### 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 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** 

Not classified as dangerous goods under transport regulations.

**IMDG** Not classified as dangerous goods under transport regulations.

# Section 15. Regulatory information



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#### U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 12(b) - Chemical export notification

Not applicable.

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**

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
Formamide, N,N'-1,6-hexanediylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	>= 1 - <= 5	SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Respiratory tract irritation - Category 3
Benzene, ethyl-	> 0 - <= 1	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Styrene	> 0 - <= 1	FLAMMABLE LIQUIDS - Category 3



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ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B

#### **SARA 313**

#### Form R - Reporting requirements

Product name	CAS number	%
Aluminum	7429-90-5	>= 5 - <= 10
Benzene, ethyl-100-41-4	> 0 - <= 1	
•		
Styrene 100-42-5 > 0 - <= 1	,	
100 42 5	. 0	1

100-42-5	> 0 - <= 1

# Supplier notification

Product name	CAS number	%
Aluminum	7429-90-5	>= 5 - <= 10

Benzene, ethyl-

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.