

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 05/19/2025

Reviewed on 05/19/2025

1 Identification

- **Product identifier**
 - **Trade name:** BlueGrip S2
- **Other means of identification**
 - **Part number:** S2
 - **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Blue Photon Technology & Workholding Systems LLC
994 Industrial Park Dr
Shelby, MI 49455
Tel: 1-855-777-2040
Fax: 1-231-255-9640
E-mail: info@bluephotongrip.com
Website: www.bluephotongrip.com
 - **Information department:** Product Safety Department
- **Emergency telephone number:**
United States: 1-800-424-9300
International: +1-703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Skin irritation 2	H315 Causes skin irritation.
Eye irritation 2A	H319 Causes serious eye irritation.
Sensitization - skin 1	H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**

Acrylic Esters
2-hydroxyethyl methacrylate
2-Butenedioic acid (2Z)
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

- **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 5888-33-5	Acrylic Esters Sensitization - skin 1B, H317	15 – 40%
CAS: 868-77-9	2-hydroxyethyl methacrylate Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317	10 – 30%
CAS: 79-10-7	acrylic acid Flammable liquids 3, H226; Skin corrosion 1A, H314; Eye damage 1, H318; Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Acute toxicity - inhalation 4, H332	1 – 5%
CAS: 110-16-7	2-Butenedioic acid (2Z) Acute toxicity - oral 4, H302; Acute toxicity - dermal 4, H312; Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317; Specific target organ toxicity (single exposure) 3, H335	0.5 – 1.5%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone Acute toxicity - oral 4, H302	0.5 – 1.5%
CAS: 162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Sensitization - skin 1A, H317	0.1 – 1%

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media

- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- Advice for firefighters

- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

- Conditions for safe storage, including any incompatibilities

- Storage:

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- Control parameters

- Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 79-10-7 acrylic acid

REL Long-term value: 6 mg/m³, 2 ppm
Skin

TLV Long-term value: 5.9 mg/m³, 2 ppm
Skin, A4

- **Additional information:** The lists that were valid during the creation were used as basis.

- Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Required use of safety glasses

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Physical state

Liquid

- Color:

According to product specification

- Odor:

Characteristic

- Odor threshold:

Not determined.

- Melting point/Melting range:

Undetermined.

- Boiling point/Boiling range:

> 100 °C (> 212 °F)

- Flammability:

Not applicable.

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- Explosion limits:	
- Lower:	Not determined.
- Upper:	26.0 Vol %
- Flash point:	97 °C (206.6 °F)
- Auto igniting:	374 °C (705.2 °F)
- Decomposition temperature:	Not determined.
- pH-value:	Not determined.
- Viscosity:	
- Kinematic:	Not determined.
- Dynamic at 20 °C (68 °F):	200,000 mPas
- Solubility in / Miscibility with	
- Water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
- Vapor pressure at 20 °C (68 °F):	> 0 hPa
- Vapor pressure:	
- Density at 20 °C (68 °F):	~ 1.05 g/cm ³ (~ 8.76225 lbs/gal)
- Relative density	Not determined.
- Vapor density	Not determined.
- Particle characteristics	Not applicable.
- Other information	
- Appearance:	
- Form:	Pasty
- Important information on protection of health and environment, and on safety.	
- Ignition temperature:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Solvent content:	
- VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
- Solids content:	10.3 %
- Change in condition	
- Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

- LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	4,678 mg/kg (rat)
Dermal	LD50	5,639 mg/kg (rabbit)
Inhalative	LC50/4 h	232 mg/l

CAS: 868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	5,050 mg/kg (rat)
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CAS: 79-10-7 acrylic acid

Oral	LD50	250 mg/kg (rat)
Dermal	LD50	280 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

CAS: 110-16-7 2-Butenedioic acid (2Z)

Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)

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CAS: 7473-98-5 2-hydroxy-2-methylpropiophenone

Oral LD50 1,694 mg/kg (rat)

- Primary irritant effect:**- on the skin:** Irritant to skin and mucous membranes.**- on the eye:** Irritating effect.**- Sensitization:** Sensitization possible through skin contact.**- Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Interactive effects No interactive effects between components are known.**- Carcinogenic categories****- IARC (International Agency for Research on Cancer)**

CAS: 79-10-7 acrylic acid

3

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- Alternative sources for toxicological information No non-standard sources for toxicological information where used.

12 Ecological information

- Toxicity**- Aquatic toxicity:** No further relevant information available.**- Persistence and degradability** No further relevant information available.**- Bioaccumulative potential** No further relevant information available.**- Mobility in soil** No further relevant information available.**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- Other adverse effects****- Remark:** Very toxic for fish**- Additional ecological information:****- General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13 Disposal considerations

- Waste treatment methods**- Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**- Uncleaned packagings:****- Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- UN-Number**- DOT, IMDG, IATA**

UN1760

- UN proper shipping name**- DOT****- IMDG****- IATA**

Corrosive liquids, n.o.s. (Acrylic acid, stabilized)

CORROSIVE LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED, isobornyl acrylate), MARINE POLLUTANT

CORROSIVE LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED)

- Transport hazard class(es)**- DOT****- Class**

8 Corrosive substances

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- Label	8
- IMDG	
	
- Class	8 Corrosive substances
- Label	8
- IATA	
	
- Class	8 Corrosive substances
- Label	8
- Packing group	
- DOT, IMDG, IATA	III
- Environmental hazards:	Product contains environmentally hazardous substances: isobornyl acrylate
- Marine pollutant:	No Yes (DOT) Symbol (fish and tree)
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- Transport/Additional information:	
- DOT	
- Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
- Remarks:	Special marking with the symbol (fish and tree).
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Special precautions for user	Warning: Corrosive substances
- Hazard identification number (Kemler code):	80
- EMS Number:	F-A,S-B
- Segregation groups	(SGG1) Acids
- Stowage Category	A
- Stowage Code	SW2 Clear of living quarters.
- UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (ACRYLIC ACID, STABILIZED), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

No further relevant information available.

- Sara

- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- Section 313 (Specific toxic chemical listings):

CAS: 79-10-7 acrylic acid

- TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- Hazardous Air Pollutants

CAS: 79-10-7 acrylic acid

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- Proposition 65**- Chemicals known to cause cancer:**

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic categories**- EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- TLV (Threshold Limit Value)

CAS: 79-10-7 acrylic acid

A4

CAS: 77-58-7 dibutyltin dilaurate

A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*** 16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Safety, Health and Environmental Affairs**- Classification System:****- HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = *2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- NFPA ratings (scale 0 - 4)

2	1	0	Health = 2
			Fire = 1
			Reactivity = 0

- Date of previous version 04/28/2025**- Version number of previous version:** 85**- Date of preparation** 05/19/2025**- Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable liquids 3: Flammable liquids – Category 3

Acute toxicity - oral 4: Acute toxicity – Category 4

Skin corrosion 1A: Skin corrosion/irritation – Category 1A

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye damage 1: Serious eye damage/eye irritation – Category 1

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - skin 1: Skin sensitisation – Category 1

Sensitization - skin 1A: Skin sensitisation – Category 1A

Sensitization - skin 1B: Skin sensitisation – Category 1B

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.