

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/01/2018

Reviewed on 06/01/2018

1 Identification

- **Product identifier:**
- **Trade name:** BRIGHT BLUE SATIN QD AQUA-LEM ENAMEL
- **Product code:** 121/M6035-2
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Camger Coatings Systems Inc.
364 Main Street
NORFOLK, MA 02056
USA
info@camger.com
- **Information department:** Product safety department
- **Emergency telephone number:** During normal opening times: +1 (508) 528-5787

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Flam. Liq. 4 H227 Combustible liquid.

- **Label elements**

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

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Warning

- **Hazard statements**

Combustible liquid.

Causes serious eye irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. – No smoking.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes:

IF exposed or concerned:

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If eye irritation persists:

In case of fire:

Store in a well-ventilated place.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

111-76-2	2-butoxyethanol	≥2.5-<10%
13463-67-7	titanium dioxide	≥2.5-<10%
78-92-2	butanol	≥2.5-<10%
57-55-6	Propylene glycol	≥0.1-≤2.5%
71-36-3	butan-1-ol	≥1-≤2.5%
136-52-7	cobalt bis(2-ethylhexanoate)	≥0.1-≤2.5%

4 First-aid measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **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. Do not induce vomiting.· **Information for 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.

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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:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

• PAC-1:

111-76-2	2-butoxyethanol	60 ppm
13463-67-7	titanium dioxide	30 mg/m ³
78-92-2	butanol	150 ppm
57-55-6	Propylene glycol	30 mg/m ³
71-36-3	butan-1-ol	60 ppm
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	30 mg/m ³
112926-00-8	Precipitated silica (Silica-Amorphous)	18 mg/m ³
64742-48-9	Hydrogen treated naphtha (Mineral spirits)	350 mg/m ³
546-93-0	Magnesite	45 mg/m ³

• PAC-2:

111-76-2	2-butoxyethanol	120 ppm
13463-67-7	titanium dioxide	330 mg/m ³
78-92-2	butanol	220 ppm
57-55-6	Propylene glycol	1,300 mg/m ³
71-36-3	butan-1-ol	800 ppm
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	330 mg/m ³
112926-00-8	Precipitated silica (Silica-Amorphous)	200 mg/m ³
64742-48-9	Hydrogen treated naphtha (Mineral spirits)	1,800 mg/m ³
546-93-0	Magnesite	260 mg/m ³

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· PAC-3:		
111-76-2	2-butoxyethanol	700 ppm
13463-67-7	titanium dioxide	2,000 mg/m ³
78-92-2	butanol	10000** ppm
57-55-6	Propylene glycol	7,900 mg/m ³
71-36-3	butan-1-ol	8000** ppm
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,000 mg/m ³
112926-00-8	Precipitated silica (Silica-Amorphous)	1,200 mg/m ³
64742-48-9	Hydrogen treated naphtha (Mineral spirits)	40,000 mg/m ³
546-93-0	Magnesite	1,600 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.
- **Instructions for use:**

Mix well before using.

This product is made ready to use,
If thinning is necessary use small
amounts of water.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

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78-92-2 butanol

PEL	Long-term value: 450 mg/m ³ , 150 ppm
REL	Short-term value: 455 mg/m ³ , 150 ppm
	Long-term value: 305 mg/m ³ , 100 ppm
TLV	Long-term value: 300 mg/m ³ , 100 ppm

57-55-6 Propylene glycol

WEEL	Long-term value: 10 mg/m ³
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71-36-3 butan-1-ol

PEL	Long-term value: 300 mg/m ³ , 100 ppm
REL	Ceiling limit value: 150 mg/m ³ , 50 ppm
	Skin
TLV	Long-term value: 61 mg/m ³ , 20 ppm

136-52-7 cobalt bis(2-ethylhexanoate)

TLV	Long-term value: (0.02) NIC-0.02* mg/m ³ as Co, *inhalable; NIC-Skin, DSEN, RSEN, (BEI)
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· Ingredients with biological limit values:
111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **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.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

· **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.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Blue
Odor:	Characteristic
Odor threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)

· Flash point: 65 °C (149 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 240 °C (464 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Not determined.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

· Density at 20 °C (68 °F): 1.106 g/cm³ (9.22957 lbs/gal)

· Relative density: Not determined.

· Vapor density at 20 °C (68 °F): Heavier than (Air)

· Evaporation rate at 20 °C (68 °F): Slower than (n-Butyl Acetate)

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

VOC content: 160.0 g/l / 1.34 lb/gal

· Other information: No further relevant information available.

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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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

111-76-2	2-butoxyethanol	3
13463-67-7	titanium dioxide	2B
14807-96-6	Talc (hydrous magnesium silicate)	3
136-52-7	cobalt bis(2-ethylhexanoate)	2B
112926-00-8	Precipitated silica (Silica-Amorphous)	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

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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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|------------------------------|
| · UN-Number | |
| · DOT, IMDG, IATA | Not applicable/Not regulated |
| · ADN | No aplicable / No regulado |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | Not applicable/Not regulated |
| · ADN | |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | Not applicable/Not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | Not applicable/Not regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not applicable/Not regulated |

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

111-76-2	2-butoxyethanol
78-92-2	butanol
71-36-3	butan-1-ol
136-52-7	cobalt bis(2-ethylhexanoate)

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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

13463-67-7 titanium dioxide

· 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)

111-76-2 2-butoxyethanol

NL

71-36-3 butan-1-ol

D

· TLV (Threshold Limit Value established by ACGIH)

111-76-2 2-butoxyethanol

A3

13463-67-7 titanium dioxide

A4

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

13463-67-7 titanium dioxide

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

· Hazard pictograms


GHS07 GHS08

· Signal word Warning

· Hazard statements

Combustible liquid.

Causes serious eye irritation.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. – No smoking.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If in eyes:

If exposed or concerned:

If eye irritation persists:

In case of fire:

Store in a well-ventilated place.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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 · **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:** Camger Coatings Systems Inc.

 · **Contact:**

Camger Coatings Systems Inc.

Compliance department.

 · **Date of preparation / last revision** 06/01/2018 / 7

 · **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

BEI: Biological Exposure Limit

Flam. Liq. 4: Flammable liquids – Category 4

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

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

 · *** Data compared to the previous version altered.**

US