



## Safety Data Sheet Clear WB Binder

Safety Data Sheet dated 7/14/2021, version 1

### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: Clear WB Binder

Other means of identification:

Trade code: 6CTW4400

Recommended use of the chemical and restrictions on use

Recommended use: Surface coating

Restrictions on use:

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

Company:

Sirca S.p.A.

Address:

Viale Roma, 85  
35010 S. Dono di Massanzago (PD) - ITALY  
Tel. +39 0499322311

Distributed by:

GEMINI INDUSTRIES, INC.  
2300 Holloway Drive  
El Reno, OK 73036  
USA  
Tel. 1-800-262-5710  
Fax 1-405-262-9310  
www.gemini-coatings.com

Competent person responsible for the safety data sheet:

safety@sirca.it

Emergency phone number

For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
1-800-424-9300 / +1 703-527-3887.

### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label elements

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

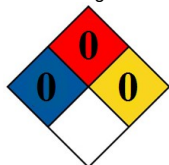
None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:





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HMIS rating:

HEALTH	*	0
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 2% - < 2.5% 2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve

REACH No.: 01-2119475108-36-xxxx, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0



A.3/2A Eye Irrit. 2A H319



A.2/2 Skin Irrit. 2 H315



A.1/4/Oral Acute Tox. 4 H302



A.1/4/Dermal Acute Tox. 4 H312



A.1/4/Inhal Acute Tox. 4 H332

>= 1% - < 2% 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether

REACH No.: 01-2119475104-44-xxxx, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6



A.3/2A Eye Irrit. 2A H319

### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

Treatment:

None

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.



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Specific hazards arising from the chemical  
Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.  
Hazardous combustion products:  
None  
Explosive properties: N.A.  
Oxidizing properties: N.A.  
Special protective equipment and precautions for fire-fighters  
Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures  
Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.  
Methods and materials for containment and cleaning up  
Wash with plenty of water.

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#### 7. HANDLING AND STORAGE

Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not use on extensive surface areas in premises where there are occupants.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Do not eat or drink while working.  
Conditions for safe storage, including any incompatibilities  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.  
Storage temperature:  
Store at ambient temperature.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2  
(OEL (IT)) - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Behaviour: Binding - Notes: pelle  
EU - TWA(8h): 98 mg/m<sup>3</sup>, 20 ppm - STEL: 246 mg/m<sup>3</sup>, 50 ppm - Notes: Skin  
MAK - TWA: 49 mg/m<sup>3</sup>, 10 ppm  
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr  
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5  
(OEL (IT)) - TWA(8h): 67.5 mg/m<sup>3</sup>, 10 ppm - STEL: 101.2 mg/m<sup>3</sup>, 15 ppm - Behaviour: Binding  
EU - TWA(8h): 67.5 mg/m<sup>3</sup>, 10 ppm - STEL: 101.2 mg/m<sup>3</sup>, 15 ppm  
ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff  
DNEL Exposure Limit Values  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2  
Worker Industry: 89 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Worker Industry: 1091 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 246 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Industry: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 98 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Exposure: Human Oral - Frequency: Short Term, systemic effects  
Exposure: Human Oral - Frequency: Long Term, systemic effects  
Consumer: 89 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Consumer: 426 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Consumer: 147 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 75 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 59 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 26.7 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects  
Consumer: 6.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects  
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5  
Worker Industry: 67.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Industry: 67.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 83 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Industry: 101.2 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)  
Consumer: 40.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 60.7 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)



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Consumer: 40.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 50 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

Target: Fresh Water - Value: 8.8 mg/l  
Target: Marine water - Value: 0.88 mg/l  
Target: Microorganisms in sewage treatments - Value: 463 mg/l  
Target: Freshwater sediments - Value: 34.6 mg/kg  
Target: Marine water sediments - Value: 3.46 mg/kg  
Target: Soil (agricultural) - Value: 2.33 mg/l  
Target: STP - Value: 463 mg/l  
Target: orally (secondary poisoning) - Value: 20 mg/kg

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

Target: Fresh Water - Value: 1 mg/l  
Target: Marine water - Value: 0.1 mg/l  
Target: occasional emission - Value: 3.9 mg/l  
Target: STP - Value: 200 mg/l  
Target: Freshwater sediments - Value: 4 mg/kg dwt  
Target: Marine water sediments - Value: 0.4 mg/kg dwt  
Target: Soil (agricultural) - Value: 0.4 mg/kg dwt  
Target: orally (secondary poisoning) - Value: 56 mg/kg

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Not needed for normal use. Work, in any case, in accordance with good practices of industrial hygiene.

Protection for hands:

Not needed for normal use. Work, in any case, in accordance with good practices of industrial hygiene.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	liquid
Odour:	characteristic
Odour threshold:	N.A.
pH:	7.50
Melting point / freezing point:	< 1° C
Initial boiling point and boiling range:	> 55° C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	other >=55°C ( >= 131°F )
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.0300 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250° C
Decomposition temperature:	N.A.
Viscosity (typical value):	20.00 " Din cup # 4
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## 10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

No dangerous reaction is stored and used appropriately.

Conditions to avoid

Stable under normal conditions.



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Incompatible materials  
None in particular.  
Hazardous decomposition products  
None.

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#### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects  
Toxicological information of the product:  
N.A.

Toxicological information of the main substances found in the product:

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Cavia porcellus 1300 mg/kg

Test: LD50 - Route: Skin - Species: Cavia porcellus > 2000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Cavia porcellus > 400 Ppm - Duration: 7h

Test: LD50 - Route: Skin - Species: Rat 220 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Yes - Notes: Provoca irritazione cutanea

Test: Eye Irritant - Species: Rabbit Yes - Notes: provoca grave irritazione oculare

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rabbit = 3 mg/l - Duration: 2h

Test: LD50 - Route: Oral - Species: Rat = 5660 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2700 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 2400 mg/kg

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

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#### 12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1490 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 24

c) Bacteria toxicity:

Endpoint: EC50 - Species: Active mud > 700 mg/l - Duration h: 16

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether - CAS: 112-34-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1300 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 100 mg/l - Duration h: 48

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

None

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#### 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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#### 14. TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

6CTW4400/1

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N.A.  
Environmental hazards  
N.A.  
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)  
No  
Special precautions  
N.A.

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## 15. REGULATORY INFORMATION

USA - Federal regulations  
TSCA - Toxic Substances Control Act  
TSCA inventory: all the components are listed on the TSCA inventory.  
TSCA listed substances:  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve is listed in TSCA Section 4, Section 12b.  
SARA - Superfund Amendments and Reauthorization Act  
Section 302 – Extremely Hazardous Substances: no substances listed.  
Section 304 – Hazardous substances: no substances listed.  
Section 313 – Toxic chemical list: no substances listed.  
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
No substances listed.  
CAA - Clean Air Act  
CAA listed substances:  
2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether is listed in CAA Section 111, Section 112(b) - HON.  
CWA - Clean Water Act  
CWA listed substances:  
None.

USA - State specific regulations  
California Proposition 65  
Substance(s) listed under California Proposition 65:  
None.  
Massachusetts Right to know  
Substance(s) listed under Massachusetts Right to know:  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve.  
New Jersey Right to know  
Substance(s) listed under New Jersey Right to know:  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve.  
Pennsylvania Right to know  
Substance(s) listed under Pennsylvania Right to know:  
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve.

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## 16. OTHER INFORMATION

Text of phrases referred to under heading 3:  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.

Safety Data Sheet dated 7/14/2021, version 1

### Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.



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INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average