

## CECCHI GUSTAVO & C.

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**C-SYSTEMS STEEL BLUE comp. A** - february 2023 - n° batch 043-B3 - rev.1/22  
SAFETY DATA SHEET - according to Regulation (EC) No. 1907/2006

# C-SYSTEMS STEEL BLUE component A

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

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

Trade name: C-SYSTEMS STEEL BLUE component A - BLUE (RAL 5017)

UFI : Q520-K0P5-V00E-652F

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

Use of the Substance/Mixture: Casting Resin

### 1.3 Details of the supplier of the safety data sheet

Company: Cecchi Gustavo & C. srl - Via M. Coppino 253,  
55049 Viareggio (LU) ITALY www.cecchi.it - info@cecchi.it

Information in case of emergency: +39 0584 383694 - info@cecchi.it

From monday to friday office hours 8:30 – 12:30, 14:00 – 18:30

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. <b>Response:</b> P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxypropoxy)phenyl]propane

Phenolic epoxy resin F-44

1,6-bis(2,3-epoxypropoxy)hexane

Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.

### Additional Labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Filled Epoxy Resin

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
bis-[4-(2,3-epoxypropoxy)phenyl]propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 % STOT RE 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 12,5 - < 20
Phenolic epoxy resin F-44	Not Assigned 500-006-8 01-2119454392-40	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 5 - < 7
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 01-2119463471-41	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 1 - < 2,5
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.	68081-84-5 01-2119962192-39	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,5 - < 1

For explanation of abbreviations see section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Keep warm and in a quiet place.  
Show this safety data sheet to the doctor in attendance.

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	Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	: Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If on clothes, remove clothes. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist. If easy to do, remove contact lens, if worn.
If swallowed	: Keep at rest. Do not induce vomiting without medical advice. Keep respiratory tract clear. If symptoms persist, call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: irritant effects Redness sensitising effects
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### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	: Foam Sand Carbon dioxide (CO <sub>2</sub> ) Water mist
Unsuitable extinguishing media	: Water spray jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	: The pressure in sealed containers can increase under the influence of heat. Cool closed containers exposed to fire with water spray.
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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Further information : In the event of fire and/or explosion do not breathe fumes. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Refer to protective measures listed in sections 7 and 8. Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

### 6.2 Environmental precautions

- Environmental precautions : Do not allow uncontrolled discharge of product into the environment. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid inhalation, ingestion and contact with skin and eyes. Wear personal protective equipment. Persons with a history of skin sensitisation problems or asth-

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ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials and amines.  
Keep product and empty container away from heat and sources of ignition.  
Keep away from food and drink.

Further information on storage stability : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
zircon	14940-68-2	TWA	5 mg/m <sup>3</sup> (Zirconium)	GB EH40
		STEL	10 mg/m <sup>3</sup> (Zirconium)	GB EH40
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0,1 mg/m <sup>3</sup> (Silica)	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
bis-[4-(2,3-epoxypropoxy)phenyl]propane	Workers	Skin contact	Acute systemic effects, Long-term systemic effects	8,33 mg/kg

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	Workers	Inhalation	Acute systemic effects, Long-term local effects	12,25 mg/m3
	Consumers	Skin contact	Acute systemic effects, Long-term systemic effects	3,571 mg/kg
	Consumers	Ingestion	Acute systemic effects, Long-term systemic effects	0,75 mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Workers	Skin contact	Long-term systemic effects	2,8 mg/kg
	Workers	Inhalation	Long-term systemic effects	4,9 mg/m3
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.	Workers	Dermal	Long-term systemic effects	4 mg/kg

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
bis-[4-(2,3-epoxypropoxy)phenyl]propane	Fresh water	0,006 mg/l
	Marine water	0,0006 mg/l
	Intermittent releases	0,018 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,996 mg/kg
	Marine sediment	0,0996 mg/kg
1,6-bis(2,3-epoxypropoxy)hexane	Soil	0,196 mg/kg
	Sewage treatment plant	1 mg/l
	Fresh water	0,0115 mg/l
	Fresh water sediment	0,283 mg/kg
	Marine water	0,00115 mg/l
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.	Marine sediment	0,0283 mg/kg
	Soil	0,223 mg/kg
	Fresh water	0,0072 mg/l
	Fresh water sediment	6,677 mg/kg
	Sewage treatment plant	1 mg/l
	Marine water	0,00072 mg/l
	Marine sediment	0,6677 mg/kg
	Soil	8012 mg/kg

**8.2 Exposure controls****Engineering measures**

Effective exhaust ventilation system  
 effective ventilation in all processing areas

**Personal protective equipment**

Eye protection : Do not wear contact lenses.  
 Safety glasses with side-shields conforming to EN166  
 Ensure that eyewash stations and safety showers are close to the workstation location.

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Hand protection	:	
Material	:	Protective gloves complying with EN 374.
Skin and body protection	:	Protective suit
Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter. Equipment should conform to EN 14387 Apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
Protective measures	:	Avoid contact with skin. Wear suitable protective equipment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	blue
Odour	:	slight
Odour Threshold	:	not determined
Melting point/freezing point	:	Not applicable
Boiling point/boiling range	:	> 200 °C
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	100 °C
Ignition temperature	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
pH	:	4 - 6 Concentration: 1 %



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Viscosity		
Viscosity, dynamic	:	100.000 - 150.000 mPa.s (25 °C)
Viscosity, kinematic	:	not determined
Solubility(ies)		
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	not determined
Density	:	1,99 g/cm <sup>3</sup> (25 °C)
Bulk density	:	not determined
Relative vapour density	:	not determined
Particle characteristics		
Particle size	:	Not applicable

### 9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Self-ignition	:	Not applicable
Evaporation rate	:	not determined
Surface tension	:	not determined
Sublimation point	:	Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Reacts with the following substances: Bases Strong oxidizing agents Avoid amines.
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### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

This product may release the following:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity (other routes of administration) : Remarks: No data available

##### Components:

#### **bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **1,6-bis(2,3-epoxypropoxy)hexane:**

Acute oral toxicity : LD50 (Rat): 2.900 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Acute oral toxicity : LD50 (Rat): 26.800 mg/kg  
Method: No information available.  
GLP: no

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Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### Skin corrosion/irritation

#### **Product:**

Remarks : No data available

#### **Components:**

##### **bis-[4-(2,3-epoxipropoxi)phenyl]propane:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes

##### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### Serious eye damage/eye irritation

#### **Product:**

Remarks : No data available

#### **Components:**

##### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### **Product:**

Remarks : No data available

#### **Components:**

##### **bis-[4-(2,3-epoxipropoxi)phenyl]propane:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

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### **1,6-bis(2,3-epoxypropoxy)hexane:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.  
GLP : yes

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **STOT - single exposure**

#### **Product:**

Remarks : No data available

### **STOT - repeated exposure**

#### **Product:**

Remarks : No data available

### **Repeated dose toxicity**

#### **Product:**

Remarks : No data available

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### Aspiration toxicity

#### Components:

##### **bis-[4-(2,3-epoxipropoxi)phenyl]propane:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

##### **bis-[4-(2,3-epoxipropoxi)phenyl]propane:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1,7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

##### **1,6-bis(2,3-epoxypropoxy)hexane:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 30 mg/l

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Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,2 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

## **12.2 Persistence and degradability,**

### **Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### **Components:**

#### **bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

#### **1,6-bis(2,3-epoxypropoxy)hexane:**

Biodegradability : Test Type: aerobic  
Result: Inherently biodegradable.  
Method: OECD Test Guideline 301D  
GLP: yes

## **12.3 Bioaccumulative potential,**

### **Product:**

Bioaccumulation : Remarks: No data available

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### Components:

#### **bis-[4-(2,3-epoxypropoxy)phenyl]propane:**

Partition coefficient: n- : log Pow: 3,242 (25 °C)  
octanol/water pH: 7,1  
Method: OECD Test Guideline 117  
GLP: yes

#### **1,6-bis(2,3-epoxypropoxy)hexane:**

Partition coefficient: n- : log Pow: 0,822 (20 °C)  
octanol/water pH: 6 - 8  
Method: OECD Test Guideline 107  
GLP: yes

#### **Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.:**

Partition coefficient: n- : log Pow: 6,6  
octanol/water pH: 6,74  
Method: OECD Test Guideline 117  
GLP: yes

### **12.4 Mobility in soil**

#### Components:

#### **1,6-bis(2,3-epoxypropoxy)hexane:**

Distribution among environ- : log Koc: 2,98  
mental compartments Method: OECD Test Guideline 121

### **12.5 Results of PBT and vPvB assessment**

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **12.7 Other adverse effects**

#### Product:

Additional ecological infor- : An environmental hazard cannot be excluded in the event of  
mation unprofessional handling or disposal.

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C-SYSTEMS STEEL BLUE comp. A - february 2023 - n° batch 043-B3 - rev.1/22  
SAFETY DATA SHEET - according to Regulation (EC) No. 1907/2006

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : In accordance with local and national regulations.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

- ADR/RID/ADN : Not regulated as a dangerous good
- IMDG : Not regulated as a dangerous good
- Remarks : IMDG Code segregation group - none

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

- Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

- REACH - Restrictions on the manufacture, placing on : Conditions of restriction for the fol-



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the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	lowing entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: Number on list: 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	: Not applicable
	: Not applicable
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH)	Not applicable

### 15.2 Chemical safety assessment

Not applicable

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## SECTION 16: Other information

### Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

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### Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

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