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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 – RAL 5017

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

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) aguatic hazard, H412: Harmful to aguatic life with long lasting

Category 3 effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : **Prevention**:

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

Hazardous components which must be listed on the label:

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

Bisphenol-F-epichlorohydrin resin, MM=<700

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

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

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Filled Epoxy Resin

Hazardous components

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
bis[4-(2,3- epoxypropoxy)phenyl]propane	1675-54-3 216-823-5 01-2119456619-26	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 12,5 - < 20
Bisphenol-F-epichlorohydrin resin, MM=<700	9003-36-5 01-2119454392-40	Skin Irrit.2; H315 Skin Sens.1A; H317 Aquatic Chronic2;	>= 5 - < 7

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		H411	
Quartz (SiO2)	14808-60-7 238-878-4 /	STOT RE2; H373	>= 3 - < 5
1,6-bis(2,3-epoxypropoxy)hexane	933999-84-9 240-260-4 01-2119463471-41	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 1 - < 2,5
Oxirane, mono[(C10-16-alkyloxy)methyl] derivs.	Not Assigned /939-183-5 01-2119962192-39	Skin Sens.1; H317 Aquatic Chronic2; H411	>= 0,5 - < 1

For explanation of abbreviations see section 16.

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.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam

Sand

Carbon dioxide (CO2)

Water mist

Unsuitable extinguishing

media

: Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: The pressure in sealed containers can increase under the

influence of heat.

Cool closed containers exposed to fire with water spray.

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.

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

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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.

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 asthma, 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 wellventilated place. Keep in properly labelled containers.

: Keep away from oxidizing agents, strongly acid or alkaline Advice on common storage

materials and amines.

Keep product and empty container away from heat and

sources of ignition.

Keep away from food and drink.

Other data : 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	Control parameters	Basis		
		of exposure)				
zircon	14940-68-2	TWA	5 mg/m3	GB EH40		
			(Zirconium)			
		STEL	10 mg/m3	GB EH40		
			(Zirconium)			
Quartz (SiO2)	14808-60-7	TWA (Respirable	0,1 mg/m3	GB EH40		
		dust)	(Silica)			
Further information						
	used					

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

bis[4-(2,3-

epoxypropoxy)phenyl]propane

: End Use: Workers

Exposure routes: Skin contact

Potential health effects: Acute systemic effects, Long-term

systemic effects Value: 8,33 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Acute systemic effects, Long-term local

effects

Value: 12,25 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Acute systemic effects, Long-term

systemic effects

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Value: 3,571 mg/kg End Use: Consumers Exposure routes: Ingestion

Potential health effects: Acute systemic effects, Long-term

systemic effects Value: 0,75 mg/kg : End Use: Workers

1,6-bis(2,3- : End Use: Workers

epoxypropoxy)hexane Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 2,8 mg/kg End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 4,9 mg/m3 : End Use: Workers

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

Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 4 mg/kg

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

bis[4-(2,3- : Fresh water

epoxypropoxy)phenyl]propane Value: 0,006 mg/l

Marine water Value: 0,0006 mg/l Intermittent releases Value: 0,018 mg/l Sewage treatment plant

Value: 10 mg/l

Fresh water sediment Value: 0,996 mg/kg Marine sediment Value: 0,0996 mg/kg

Soil

Value: 0,196 mg/kg

1,6-bis(2,3- : Sewage treatment plant epoxypropoxy)hexane : Value: 1 mg/l

Fresh water Value: 0,0115 mg/l Fresh water sediment Value: 0,283 mg/kg

Marine water

Value: 0,00115 mg/l Marine sediment Value: 0,0283 mg/kg

Soil

Value: 0,223 mg/kg

Oxirane, mono[(C10-16-

alkyloxy)methyl] derivs.

: Fresh water Value: 0,0072 mg/l

Fresh water sediment Value: 6,677 mg/kg

Sewage treatment plant Value: 1 mg/l Marine water

Value: 0,00072 mg/l

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Marine sediment Value: 0,6677 mg/kg

Soil

Value: 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.

Hand protection

Material : Protective gloves complying with EN 374.

Skin and body protection : Protective suit

: Use respiratory protection unless adequate local exhaust Respiratory protection

> 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.

: Avoid contact with skin. Protective measures

Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

: liquid Appearance

Colour : blue

Odour : slight

Odour Threshold : not determined

: not determined Hq

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

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Flash point : 100 °C

Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1,99 g/cm3 (25 °C)

Bulk density : not determined

Solubility(ies)

Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : Not applicable

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamic : 100.000 - 150.000 mPa.s (25 °C)

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : not determined

Sublimation point : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

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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.

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

Hazardous decomposition

products

This product may release the following:

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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: ves

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

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GLP: ves

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

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-epoxypropoxy)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

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Components:

bis[4-(2,3-epoxypropoxy)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

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

Germ cell mutagenicity

Carcinogenicity

Product:

Remarks: No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Remarks: No data available

Effects on foetal : Remarks: No data available development : Remarks: No data available

STOT - single exposure

Product:

Remarks: Not applicable

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

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Aspiration toxicity

Components:

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

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available

aquatic invertebrates

Components:

bis[4-(2,3-epoxypropoxy)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

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

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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: ves

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

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

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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 : log Koc: 2,98

environmental 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 Other adverse effects

Product:

Additional ecological

information

: Remarks: An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.

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.

SECTION 14: Transport information

14.1 UN 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

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14.4 Packing group

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

e market and use of certain dangerous substances,

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

 This product does not contain substances of very high concern

(Regulation (EC) No

: Not applicable

: Not applicable

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

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

Other regulations : For the product composition, we do not add any of the

substances listed in the European Directive 2011/65/EU

(RoHS 2, RoHS 3, and China RoHS).

The product is thus in line with those directives. We do not add Conflict minerals to the product.

15.2 Chemical safety assessment

Not applicable

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

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H319 : Causes serious eye irritation.

H373 : May cause damage to organs through prolonged or repeated

exposure if inhaled.

H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure

Further information

Training advice : Provide adequate information, instruction and training for

operators.

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