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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 – 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 identificationa

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.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting 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.

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 eye protection/ face protection.

P280 Wear protective gloves.

Response:

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:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)

Epichlorohydrin-formaldehyde-phenol polymer number average molecular weight # 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 | Classification | Classification | Concentration |
|-----------------|-----------|----------------|------------------|-----------------|
| i Chemical Name | L.A.5-IVO | i Ciassincanon | l Classification | i Conceniration |

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| | EC-No. Registration number | (67/548/EEC) | (REGULATION (EC) No 1272/2008) | (%) |
|---|---|------------------------------------|--|----------------|
| reaction product bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700) | 25068-38-6 01- 2119456619-26 | Xi; R36/38 R43 N; R51-R53 | Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 12,5 - < 20 |
| Epichlorohydrinformaldehyde- phenol polymer number average molecular weight # 700 | 9003-36-5 | Xi; R36/38 R43 N; R51/53 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 5 - < 7 |
| Quartz (SiO2) | 14808-60-7 238-878-4 | Xn; R48/20 | STOT RE 2; H373 | >= 3 - < 5 |
| 1,6-bis(2,3- epoxypropoxy)hexane | 16096-31-4 240-260-4 01- 2119463471-41 | Xi; R36/38 Xi; R43 N; R52/53 | 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. | 68081-84-5 268-358-2 / | Xi; R36/38 Xi; R43 N; R51/53 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 1 - < 2,5 |

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

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

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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 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.

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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. Advice on common storage: Keep away from oxidising 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.

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.

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/m3 (Zirconium) | GB EH40 | | |
| | | STEL | 10 mg/m3 (Zirconium) | GB EH40 | | |
| Quartz (SiO2) | 14808-60-7 | TWA (Respirable dust) | 0,1 mg/m3 (Silica) | GB EH40 | | |
| Further information | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used | | | | | |

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

reaction product: bisphenol-A- (epichlorhydrin) and epoxyresin (number average molecular weight <= 700):

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

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

End Use: Workers

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

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

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):

Fresh water
Value: 0,006 mg/l
Marine water
Value: 0,006 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-epoxypropoxy)hexane:

Sewage treatment plant

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

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: Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to 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.

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In the case of vapour formation use a respirator with an approved filter.

Respirator with a vapour filter (EN 141).

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid Colour: blue Odour: slight

Odour Threshold: not determined pH: not determined Melting point/freezing point: Not applicable > 200 °C Flash point: 100 °C

Evaporation rate:

Upper explosion limit:

Lower explosion limit:

Vapour pressure:

Relative vapour density:

Density:

Bulk density:

not determined

Not applicable

Not applicable

not determined

1,99 g/cm3 (25 °C)

not determined

Solubility(ies)

Solubility in other solvents: not determined Partition coefficient: noctanol/water: No data available 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.

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:

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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

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular

weight <= 700):

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

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

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:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular

weight <= 700): 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: ves

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular

weight <= 700):

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

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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 (GPMT)

Exposure routes: Dermal Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure

Product:

Remarks: Not applicable STOT - repeated exposure Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular

weight <= 700):

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 aquatic invertebrates:

Remarks: No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700):

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

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

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 7,2 mg/l

Exposure time: 48 h Test Type: static test

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Method: OECD Test Guideline 202

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular

weight <= 700):

Biodegradability: Result: Not readily biodegradable.

Method: OECD Test Guideline 301F

GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation: Remarks: No data available

Components:

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

Partition coefficient: noctanol/water:

log Pow: 6,6 pH: 6,74

Method: OECD Test Guideline 117

GLP: yes

12.4 Mobility in soil

No data available

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

14.4 Packing group

Not regulated as a dangerous good

Remarks: IATA: These substances when transported in single or

combination packagings containing a net

quantity per single or inner packaging of 5 L or less far liquids

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or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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)

: Xylene, mixture of isomers

2-methylpropan-1-ol

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

1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation

(Annex XIV)

: 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

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.

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: Chronic aquatic toxicity

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.