

## C-SYSTEMS 10 10 CFS 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 10 10 CFS component A**

#### 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,  
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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.             |
| Chronic aquatic toxicity, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

##### Classification (67/548/EEC, 1999/45/EC)

|                               |   |
|-------------------------------|---|
| Sensitising                   | R43: May cause sensitisation by skin contact.   |
| Irritant                      | R36/38: Irritating to eyes and skin.  |
| Dangerous for the environment | R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

#### 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.

H411 Toxic 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)

1,4-bis(2,3-epoxypropoxy)butane

1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

#### 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 : Modified epoxy resin

**Hazardous components**

| <b>Chemical Name</b>  | <b>CAS-No.<br/>EC-No.<br/>Registration<br/>number</b> | <b>Classification<br/>(67/548/EEC)</b> | <b>Classification<br/>(REGULATION<br/>(EC) No<br/>1272/2008)</b>  | <b>Concentration (%)</b> |
|---|---|--|---|--------------------------|
| reaction product:<br>bisphenol-A-<br>(epichlorhydrin) and<br>epoxy resin (number<br>average molecular<br>weight <= 700) | 25068-38-6<br>01-<br>2119456619-26                    | Xi; R36/38<br>R43<br>N; R51-R53        | Eye Irrit. 2; H319<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>Aquatic Chronic 2;<br>H411               | >= 50 - <= 100           |
| 1,4-bis(2,3-<br>epoxypropoxy)butane   | 2425-79-8<br>219-371-7<br>01-<br>2119494060-45        | Xn; R20/21<br>Xi; R36/38<br>R43        | Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Eye Irrit. 2; H319<br>Skin Irrit. 2; H315<br>Skin Sens. 1; H317 | >= 10 - < 12,5           |
| 1,3-Propanediol, 2-<br>ethyl-2-<br>(hydroxymethyl)-,<br>polymer with<br>(chloromethyl)<br>oxirane                       | 30499-70-8  | Xi; R36/38<br>Xi; R43                  | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317   | >= 7 - < 10              |
| benzyl alcohol  | 100-51-6<br>202-859-9<br>01-<br>2119492630-38         | Xn; R20/22                             | Acute Tox. 4; H332<br>Acute Tox. 4; H302  | >= 3 - < 5               |
| bis(1,2,2,6,6-<br>pentamethyl-4-<br>piperidyl) sebacate   | 41556-26-7<br>255-437-1                               | Xi; R43<br>N; R50/53                   | Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410                                | >= 0,1 - < 0,25          |

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.

### **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 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.

## **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**

Contains no substances with occupational exposure limit values.

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

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

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

benzyl alcohol : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects Value: 450 mg/m3

End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects Value: 90 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects Value: 47 mg/kg

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects Value: 9,5 mg/kg

End Use: Consumers

Exposure routes: Ingestion

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Potential health effects: Short-term exposure, Systemic effects Value: 25 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term exposure, Systemic effects

Value: 5 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

Value: 40,55 mg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 8,11 mg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Short-term exposure, Systemic effects

Value: 28,5 mg/kg

End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term exposure, Systemic effects

Value: 5,7 mg/kg

**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: 0,0006 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

benzyl alcohol : Fresh water

Value: 1 mg/l

Marine water

Value: 0,1 mg/l

Fresh water sediment

Value: 5,27 mg/kg

Marine sediment

Value: 0,527 mg/kg

Soil

Value: 0,456 mg/kg

Sewage treatment plant

Value: 39 mg/l

Intermittent releases

Value: 2,3 mg/l

### 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.

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 :                              | purple                         |
| Odour :                               | slight                         |
| Odour Threshold :                     | not determined                 |
| pH :                                  | not determined                 |
| Melting point/freezing point :        | Not applicable                 |
| Boiling point/boiling range :         | > 200 °C                       |
| Flash point :                         | 150 °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 :                             | 1,12 g/cm <sup>3</sup> (25 °C) |
| Bulk density :                        | not determined                 |
| Solubility(ies)                       |                                |
| Solubility in other solvents :        | not determined                 |
| Partition coefficient: octanol/water: | No data available              |
| Auto-ignition temperature :           | Not applicable                 |
| Thermal decomposition :               | Method: No data available      |
| Viscosity                             |                                |
| Viscosity, dynamic :                  | 600 - 900 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

: 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 : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

###### **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

###### **benzyl alcohol:**

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

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

###### **benzyl alcohol:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

##### **Serious eye damage/eye irritation**

###### **Product:**

Remarks: No data available





**Components:**

**benzyl alcohol:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Components:**

**reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight  $\leq 700$ ):**

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

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  $\leq 700$ ):**

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  $\leq 700$ ):**

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)



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Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

### benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates  
: EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
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  $\leq 700$ ):

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

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 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

|           |         |
|-----------|---------|
| ADR/RID : | UN 3082 |
| IMDG :    | UN 3082 |
| IATA :    | UN 3082 |

### 14.2 UN proper shipping name



**ADR/RID :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Epoxy resin)  
**IMDG :** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Epoxy resin)  
**IATA :** Environmentally hazardous substance, liquid, n.o.s.  
(Epoxy resin)

**14.3 Transport hazard class(es)**

**ADR/RID :** 9  
**IMDG :** 9  
**IATA :** 9

**14.4 Packing group**

**ADR/RID**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : E  
**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA**

Packing instruction (cargo aircraft): 964  
Packing instruction (passenger aircraft): 964  
Packing group : III  
Labels : 9

**14.5 Environmental hazards**

**ADR/RID**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

**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) : Low boiling point naphtha - unspecified

Xylene, mixture of isomers

2-methoxy-1-methylethyl acetate

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 II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major accident hazards involving dangerous substances

Quantity 1 Quantity 2

9b Dangerous for the environment

200 t 500 t

**15.2 Chemical Safety Assessment**

Not applicable

**SECTION 16: Other information****Full text of R-Phrases**

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R20/21 : Harmful by inhalation and in contact with skin.

R20/22 : Harmful by inhalation and if swallowed.

R36/38 : Irritating to eyes and skin.

R43 : May cause sensitisation by skin contact.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51 : Toxic to aquatic organisms.

R53 : May cause long-term adverse effects in the aquatic environment.

### **Full text of H-Statements**

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

H411 : Toxic to aquatic life with long lasting effects.

### **Full text of other abbreviations**

Acute Tox. : Acute toxicity

Aquatic Acute : Acute aquatic toxicity

Aquatic Chronic : Chronic aquatic toxicity

Eye Irrit. : Eye irritation

Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitisation

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