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Version: 2

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

Product form: mixture.

Trade name: Chemdye® Chemical Indicator.

- CD87-200, CD87-1000, CD87-1000M.

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

#### 1.2.1. Relevant identified uses of the substance or mixture:

Chemdye® CD87 designed for monitoring disinfection processes by continuous UV-C (254 nm) and pulsed UV (PX-UV) radiation, for radiation dose  $\geq 50$  mJ/cm<sup>2</sup>; Chemdye® CD87-1000 designed for monitoring disinfection processes by continuous UV-C (254 nm) and pulsed UV (PX-UV) radiation, for UVGI dose  $\geq 1000$  mJ/cm<sup>2</sup>; Chemdye® designed for monitoring disinfection processes of N95 and FFP2 respirators by UVGI, for UVGI dose  $\geq 1000$  mJ/cm<sup>2</sup>.

#### 1.2.2. Uses advised against:

Do not use for purposes other than stated in the indications for use.

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

**Manufacturer:** Terragene S.A.

**Address:** Ruta Nacional N° 9, Km 280 - CP 2130 - Parque Industrial Micropi - Alvear - Santa Fe - Argentina

**Produced by:** QA&RA Department

**Info Telephone:** +54 341 5587007 | 5587008 | 5587009

**E-mail:** info@terrogene.com

**Web Page:** www.terrogene.com

#### 1.4. Emergency telephone

24-hour Emergency Number: Chemtrec International: +17035273887

### Section 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture.

The product is not classified as dangerous according to **Regulation (EC) No. 1272/2008 (CLP)**.

#### CLASSIFICATION:

N/A

#### Adverse physicochemical, human health and environmental effects:

No information available.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 (CLP)

##### 2.2.1. Hazard pictograms

N/A

##### 2.2.2 Signal word

N/A

##### 2.2.3. Hazard statements

N/A

##### 2.2.4. Precautionary statements

N/A

##### 2.2.5 Supplemental Hazard information (EU):

N/A

**2.3. Other hazards**

PBT: not yet assessed.

VPvB: not yet assessed.

**Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS****3.1. Substance**

Not applicable.

**3.2 Mixture**

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Regulation (EC) No. 1272/2008 (CLP).

- Chemdye® CD87-200 Chemical Indicators for monitoring disinfection processes by continuous UV-C (254 nm) and pulsed UV (PX-UV) radiation:

Ingredients	CAS Number	Content %	EC Number	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Indicating ink	N/A	<10	N/A	N/A
Synthetic substrate	N/A	≥90	N/A	N/A

Comments: Exact concentrations are withheld as trade secret

**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures**

**4.1.1. General:**

No need for first aid is anticipated.

**4.1.2. In case of ingestion:**

No need for first aid is anticipated.

**4.1.3. In case of eye contact:**

No need for first aid is anticipated.

**4.1.4. In case of skin contact:**

No need for first aid is anticipated.

**4.1.5. In case of inhalation:**

No need for first aid is anticipated.

**4.2. Most important symptoms and effects, both acute and delayed**

N/A

**4.3. Indication of any immediate medical attention and special treatment needed**

N/A

**Section 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing Media**

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>) or dry chemical powder.

Unsuitable extinguishing media: None known.

**5.2. Special hazards arising from the substance or mixture**

N/A

### 5.3. Advice for firefighter

N/A

## Section 6: ACCIDENTAL RELEASE MEASURES

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

N/A

#### 6.1.1 For non-emergency personnel

N/A

#### 6.1.2 For emergency responders

N/A

### 6.2. Environmental precautions

N/A

### 6.3. Methods for containment and cleaning up

Released material in dry form may be swept up using a broom and dust pan or picked up by hand if wearing protective gloves. Clean up residue. Seal container. Dispose of collected material according to country's healthcare and safety regulations.

### 6.4. Reference to other sections

Section 8 and 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Hygiene measures: Take care for general good hygiene and housekeeping. Do not drink, eat, smoke when using this product.

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

Storage conditions: Store in dark, dry conditions before and after use. Do not freeze. Ensure adequate ventilation. Avoid dust formation.

Incompatible materials: Do not store near sterilizing or disinfectant agents.

Keep away from sources of ignition.

Temperatures: 10 – 30 °C.

Relative humidity: 30 – 80 %.

### 7.3. Specific end use(s)

- Chemdye® CD87-200: designed for monitoring disinfection processes by continuous UV-C (254 nm) and pulsed UV (PX-UV) radiation. Conditions: radiation dose  $\geq 50$  mJ/cm<sup>2</sup>.
- Chemdye® CD87-1000: designed for monitoring disinfection processes by continuous UV-C (254 nm) and pulsed UV (PX-UV) radiation. Conditions: UVGI dose  $\geq 1000$  mJ/cm<sup>2</sup>.
- Chemdye® CD87-1000M: designed for monitoring disinfection processes of N95 and FFP2 respirators by UVGI. Conditions: UVGI dose  $\geq 1000$  mJ/cm<sup>2</sup>.

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1 Occupational Exposure Limits

**Exposure limits**

This product, as supplied, does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

**8.2. Exposure controls****8.2.1. Engineering controls**

No engineering controls are necessary.

**8.2.2. Personal protective equipment**

The use of gloves, moisture impervious aprons, and other protective clothing must be dictated by the standard operational procedures of each individual laboratory. Wash hands thoroughly after handling.

Hand protection: According to operational procedures of each individual laboratory.

Eye protection: According to operational procedures of each individual laboratory.

Skin and body protection: According to operational procedures of each individual laboratory.

Respiratory protection: According to operational procedures of each individual laboratory.

**8.2.3. Environmental exposure controls**

N/A

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Printed tape
<b>Color:</b>	White and yellow
<b>Odour:</b>	N/A
<b>Odour threshold:</b>	N/A
<b>pH:</b>	N/A
<b>Relative evaporation rate:</b>	N/A
<b>Melting point/Freezing point:</b>	N/A
<b>Boiling point:</b>	N/A
<b>Flash point:</b>	N/A

<b>Flammability:</b>	N/A
<b>Vapour pressure:</b>	N/A
<b>Relative vapour density at 20°C:</b>	N/A
<b>Relative density:</b>	N/A
<b>Log Pow:</b>	N/A
<b>Explosive properties:</b>	N/A
<b>Oxidising properties:</b>	N/A
<b>Solids:</b>	100%
<b>Viscosity:</b>	N/A
<b>Decomposition Temp.:</b>	N/A
<b>Explosive Limits:</b>	N/A
<b>Auto-ignition Temp.:</b>	N/A
<b>Solubility:</b>	N/A

## 9.2 Other information

VOC's (ASTM D 2369-87): N/A.

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable under recommended storage conditions (see section 7).

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Hazardous Decomposition Products: N/A.

Hazardous Polymerization: N/A.

### 10.4. Conditions to avoid

Avoid excessive heat and pressure. Avoid dust formation.



### 10.5. Incompatible materials

Sterilizing and disinfectant agents.

### 10.6. Hazardous decomposition products

None under normal conditions of use.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1. Signs and symptoms of exposure

Acute toxicity: Not classified. Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Not classified. Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Not classified. Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Not classified. Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified. Based on available data, the classification criteria are not met.

Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard: Not classified. Based on available data, the classification criteria are not met.

Additional Information: This product, when used under appropriate conditions and in accordance with the instructions for use, should not present any risk to health. However, the use or processing of the product in a manner not covered by the product instructions could affect the operation of the product and present a potential risk to health and safety.

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects.

No information available.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste Disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Ensure all national/local regulations are observed.

Avoid release to the environment.

#### Section 14: TRANSPORT INFORMATION

##### 14.1. UN number

Not considered a dangerous good according to IATA, IMDG, ADN, ADR, RID Dangerous Goods Regulations.

##### 14.2 UN proper shipping name

N/A

##### 14.3 Transport hazard class(es)

N/A

##### 14.4 Packing group

N/A

##### 14.5 Environmental hazards

N/A

##### 14.6 Special precaution for users

No additional information available.

##### 14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC CODE

N/A

## Section 15: REGULATORY INFORMATION

### 15.1 Safety, Health and environmental regulation/legislation specific for the substance or mixture

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH Candidate List.

Contains no REACH Annex XIV substances.

### 15.2 Chemical safety assessment

No chemical safety assessment is required.

## Section 16: OTHER INFORMATION

According to Regulation (EU) 2015/830.

Indication of changes: N/A

Abbreviations and acronyms:

CLP: Classification, Labelling and Packaging.

CAS number: Chemical Abstracts Service number.

Data sources:

<https://echa.europa.eu/information-on-chemicals/cl-inventory-database>

<https://echa.europa.eu/es/information-on-chemicals>

Regulation on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

### 16.1. Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.

**16.2. Date of issue/Date of revision**

24-07-2020

**16.3. Revision number**

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