

# SAFETY DATA SHEET

(In accordance with article 2 of regulation 2020/878 and its amendments)

## S SYSTEM BALLADE

Version No.: V11-CLP  
Date revised : 23/05/2025

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1. Product identifier.

Product name : **S SYSTEM BALLADE**

N° UFI : not concerned.

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

Raw material for industrial use : fragrance composition (mixture of odoriferous substances).

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

IPC  
10 Quai Malbert  
29200 BREST France  
Tél : +33(0)2.98.43.45.44  
Fax : +33 (0)2.98.44.22.53  
ipc@groupe-ipc.com

#### 1.4. Emergency telephone number.

ORFILA : +33 (0)1 45 42 59 59 (24h/24 7/7)

### 2. HAZARDS IDENTIFICATION.

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

##### Classification according to Regulation (EC) N° 1272/2008

| Class/Cat. of danger | Phrases of Hazard               | Codes of danger | Mentions of Hazard                                                                                                                                                                                                                                                    |
|----------------------|---------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                 | EUH 208         | Contains <linalyl acetate ; linalool ; 3,7-dimethyl-1,6-nonadien-3-ol ; geraniol ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; cyclopentadecanolide (omega-pentadecalactone) ; methyl cedryl ether>. May produce an allergic reaction. |
| Aquatic Chronic 3    | Chronic Aquatic toxicity cat. 3 | H412            | Harmful to aquatic life with long lasting effects.                                                                                                                                                                                                                    |

#### 2.2. Label elements.

##### Labelling according to Regulation (EC) N° 1272/2008



Signal word : ----

| Codes of danger | Mentions of Hazard                                                                                                                                                                                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUH 208         | Contains <linalyl acetate ; linalool ; 3,7-dimethyl-1,6-nonadien-3-ol ; geraniol ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; cyclopentadecanolide (omega-pentadecalactone) ; methyl cedryl ether>. May produce an allergic reaction. |

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|      |                                                    |
|------|----------------------------------------------------|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|----------------------------------------------------|

| Type | Code | Precautionary                                                                                                     |
|------|------|-------------------------------------------------------------------------------------------------------------------|
| P    | P273 | Avoid release to the environment.                                                                                 |
| E    | P501 | Dispose of contents/container to ... (... in accordance with local/regional/national or international regulation) |

P : Prevention I : Intervention S : Storage E : Elimination

| Substances involving one classification                                  |
|--------------------------------------------------------------------------|
| 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone |
| 3,7-dimethyl-1,6-nonadien-3-ol                                           |
| cyclopentadecanolide (omega-pentadecalactone)                            |
| geraniol                                                                 |
| linalool                                                                 |
| linalyl acetate                                                          |
| methyl cedryl ether                                                      |

### 2.3. Other hazards.

|                                |                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Endocrine disruptors >= 0.1% : | The mixture does not contain any ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH or Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more. |
| SVHC >= 0,1% :                 | None.                                                                                                                                                                                                                                        |
| vPvB and PBT >= 0,1% :         | None.                                                                                                                                                                                                                                        |
| Nanoparticles :                | None.                                                                                                                                                                                                                                        |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS.

| Dosage | Substances /<br>Specific concentration limit                                             | CAS no.<br>EINECS/ELINCS no.<br>EC-List no.   | REACH N°              | Classification Regulatory<br>(EC) 1272 /2008                               | ETA<br>M Factor                                |
|--------|------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------|----------------------------------------------------------------------------|------------------------------------------------|
| 0,97%  | methyl cedryl ether<br><br>(New identifiers = CAS 1<br>67874-81-1 / EINECS<br>267-510-5) | 19870-74-7<br>243-384-7<br><br>(EC-List : ID) | 01-2120228335-61-xxxx | Aquatic Chronic 1, H410;<br>Aquatic Acute 1, H400;<br>Skin Sens. 1B, H317; | M=1 (chronic toxicity)<br>M=1 (acute toxicity) |
| 0,96%  | 3,7-dimethyl-1,6-nonadien-3-ol                                                           | 10339-55-6<br>233-732-6                       | 01-2119969272-32-xxxx | Skin Sens. 1B, H317;<br>Skin Irrit. 2, H315;<br>Eye Irrit. 2, H319;        | ETA (oral): 5000 mg/kg                         |
| 0,96%  | cyclopentadecanolide<br>(omega-pentadecalactone)                                         | 106-02-5<br>203-354-6                         | 01-2119987323-31-xxxx | Aquatic Chronic 2, H411;<br>Skin Sens. 1B, H317;                           |                                                |

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|       |                                                                                                                                                                                                                                                                                                                                      |                                                      |                       |                                                                          |                        |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------|--------------------------------------------------------------------------|------------------------|
| 0,96% | 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone<br><br>(Reaction Mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one) | 54464-57-2<br>259-174-3<br><br>(EC-List : 915-730-3) | 01-2119489989-04-xxxx | Skin Sens. 1B, H317;<br>Skin Irrit. 2, H315;<br>Aquatic Chronic 1, H410; | M=1 (chronic toxicity) |
| 0,96% | linalool                                                                                                                                                                                                                                                                                                                             | 78-70-6<br>201-134-4                                 | 01-2119474016-42-xxxx | Skin Sens. 1B, H317;<br>Skin Irrit. 2, H315;<br>Eye Irrit. 2, H319;      | ETA (oral): 2790 mg/kg |
| 0,24% | geraniol                                                                                                                                                                                                                                                                                                                             | 106-24-1<br>203-377-1                                | 01-2119552430-49-xxxx | Skin Sens. 1, H317;<br>Skin Irrit. 2, H315;<br>Eye Dam. 1, H318;         | ETA (oral): 3600 mg/kg |
| 0,21% | linalyl acetate                                                                                                                                                                                                                                                                                                                      | 115-95-7<br>204-116-4                                | 01-2119454789-19-xxxx | Skin Sens. 1B, H317;<br>Skin Irrit. 2, H315;<br>Eye Irrit. 2, H319;      |                        |

**Substances classified SS 1/SS 1A/SS 1B/REP 1A/REP 1B between 0.1% and 0.01% :**

| Dosage | Substances /<br>Specific concentration limit                                                                                                                                                              | CAS no.<br>EINECS/ELINCS no.                   | REACH N°              | Classification Regulatory<br>(EC) 1272 /2008                                                    | ETA<br>M Factor                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 0,08%  | 6,7-dihydro-1,1,2,3,3-pentamethyl-4(5h)-indanone (cashmeran)                                                                                                                                              | 33704-61-9<br>251-649-3                        | 01-2119977131-40-xxxx | Skin Sens. 1B, H317;<br>Eye Irrit. 2, H319;<br>Skin Irrit. 2, H315;<br>Aquatic Chronic 2, H411; | ETA (oral): 2900 mg/kg                                |
| 0,08%  | 3-methylcyclopentadecenone                                                                                                                                                                                | 82356-51-2<br>429-900-5                        | 01-0000017618-62-xxxx | Aquatic Acute 1, H400;<br>Aquatic Chronic 1, H410;<br>Skin Sens. 1, H317;                       | M=1 (acute toxicity)<br>M=1 (chronic toxicity)        |
| 0,05%  | coumarin                                                                                                                                                                                                  | 91-64-5<br>202-086-7                           | 01-2119949300-45-xxxx | Skin Sens. 1B, H317;<br>Acute Tox. 4, H302;                                                     | ETA (oral): 500 mg/kg                                 |
| 0,04%  | dl-citronellol                                                                                                                                                                                            | 106-22-9<br>203-375-0                          | 01-2119453995-23-xxxx | Skin Sens. 1B, H317;<br>Skin Irrit. 2, H315;<br>Eye Irrit. 2, H319;                             | ETA (oral): 3450 mg/kg<br>ETA (cutaneous): 2650 mg/kg |
| 0,03%  | methyl atrarate                                                                                                                                                                                           | 4707-47-5<br>225-193-0                         | 01-2120762759-36-xxxx | Skin Sens. 1B, H317;                                                                            |                                                       |
| 0,01%  | 1-(2,2,6-trimethylcyclohexyl)-3-hexanol<br><br>(Reaction Mass of Cyclohexanepropanol, 2,2,6-trimethyl-a-propyl-, (alpha.R,1R,6S)- and Cyclohexanepropanol, 2,2,6-trimethyl-a-propyl-, [1a(S*),6b]- (9Cl)) | 70788-30-6<br><br>(EC-List : 947-716-8)<br>--- | 01-2120768938-30-xxxx | Skin Sens. 1B, H317;<br>Aquatic Acute 1, H400;<br>Aquatic Chronic 1, H410;                      | M=1 (acute toxicity)<br>M=1 (chronic toxicity)        |

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For the entire text of H phrases, or classes and categories of hazard mentioned in this section , see section 16.

### 4. FIRST-AID MEASURES.

#### 4.1. Description of first aid measures.

**If inhaled :**

Keep patient calm, remove to fresh air, seek medical attention.

**On skin contact :**

If irritation appears, remove any contaminated clothing . Wash affected areas thoroughly with soap and water.  
If irritation persists or any sign of tissue damage is apparent, obtain medical advice.

**On contact with eyes :**

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open,consult an eye specialist

**On ingestion :**

Rinse mouth immediately with water. Don't drink anything. Do not intend make vomit and seek medical attention.

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

None.

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

None.

### 5. FIRE-FIGHTING MEASURES.

#### 5.1. Extinguishing media.

**Suitable extinguishing media :**

Foam or powder or carbon dioxide extinguishers· Combat the important fires with water spray or foam resistant to alcohol.

**Unsuitable extinguishing media :**

Do not use a direct water jet on the burning product.

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

As a result of combustion or thermal decomposition reactive subproducts are created (CO<sub>2</sub>, CO, NO<sub>x</sub>,...) that can become highly toxic and, consequently, can present a serious health risk

#### 5.3. Advice for fire-fighters.

Keep containers cool by spraying with water if exposed to fire.

Use a self contained breathing apparatus and a combination set for the fight against fire.

### 6. ACCIDENTAL RELEASE MEASURES.

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

Refer to the protective measures listed in sections 7 and 8.

NO SMOKING. Do not expose to flame or any potential source of ignition (e.g. electrical equipment).

Avoid contact with skin and inhalation of vapours. Ensure adequate ventilation of the workplace.

For non-emergency personnel:

Avoid all contact with skin and eyes.

For rescuers:

Stakeholders will be equipped with appropriate personal protective equipment.

#### 6.2. Environmental precautions.

Avoid direct discharge to sewer, surface water and groundwater, not make to penetrate into the soil (see item 6.3).

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

Absorb material with inert absorbent powder or granules (sand ...)  
Major spills should be absorbed by sand or inert powder and destroyed or according to applicable regulations. If rags are used to wipe up, quickly get rid of by incineration, as cases of auto-oxidation with spontaneous combustion are known.  
Clean dust with a vacuum cleaner. Wash with detergent and water.  
Reduction of gases / fumes with water projection

### 6.4. Reference to other sections.

For exposure control and personal protection measures, see section 8.  
For considerations of waste disposal, see section 13.

## 7. HANDLING AND STORAGE.

### 7.1. Precautions for safe handling.

Avoid contact with skin and eyes. Wear suitable gloves and eye protection. Ensure adequate ventilation of the workplace.  
Follow proper hygiene rules : do not drink, eat or smoke while handling. Do not expose to flame or any potential source of ignition.

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

Store at room temperature (20°C +/- 5°C), in a cool, dry and ventilated place, protected from light, in the original containers if possible, full and tightly closed. Keep away from any source of ignition.  
Once opened, any container must be carefully closed and positioned vertically to avoid any spillage.

### 7.3. Specific end use.

Perfume.

### 7.4. Directions for use.

Homogenize before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1. Control parameters.

| N° CAS     | Country | Designation                         | Dosage | VLEP8h (ppm) | VLEP8h (mg/m3) | VLEPCT (ppm) | VLEPCT (mg/m3) |
|------------|---------|-------------------------------------|--------|--------------|----------------|--------------|----------------|
| 34590-94-8 | FR      | dipropylene glycol monomethyl ether | 59.63% | 50           | 308            | -            | -              |
| 34590-94-8 | EU      | dipropylene glycol monomethyl ether | 59.63% | 50           | 308            | -            | -              |

| N° CAS     | Country | Remarks                                                                                                      |
|------------|---------|--------------------------------------------------------------------------------------------------------------|
| 34590-94-8 | FR      | Valeurs limites réglementaires restrictives Peau                                                             |
| 34590-94-8 | EU      | Valeur limite indicative d'exposition professionnelle (IOELV) ~ (pour les références, voir la bibliographie) |

### 8.2. Exposure controls.

#### 8.2.1. Appropriate engineering controls.

Handling should be at a temperature as low as possible. Ensure proper ventilation.

#### 8.2.2. Individual protection measures, such as personal protective equipment.

##### Respiratory protection :

Avoid excessive inhalation of vapors. If necessary wear a filter mask against gases. (EN14387 : 2004 + A1 : 2008)

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### Eyes protection :

Use safety goggles.

### Skin protection :

Avoid skin contact . Use chemically resistant gloves as needed.

### 8.2.3. Environmental exposure controls.

Avoid direct discharge to sewer, surface water and groundwater, not make to penetrate into the soil.

## 9. PHYSICAL AND CHEMICAL PROPERTIES.

### 9.1. Information on basic physical and chemical properties.

|                               |                             |
|-------------------------------|-----------------------------|
| Aspect                        | : liquid                    |
| Color                         | : colorless to light yellow |
| Odour                         | : Floral – Woody – Musk     |
| pH                            | : no appropriate            |
| Melting point                 | : not determined            |
| Boiling point                 | : not determined            |
| Explosive properties          | : not explosive             |
| Oxydising properties          | : not determined            |
| Vapor pressure                | : < 2 mmHg                  |
| Specific gravity 20°C (d20/4) | : 0,9685 / 0,9885           |
| Refractive index at 20°C      | : 1,4355 / 1,4455           |
| Flash point                   | : 84 °C                     |
| Viscosity                     | : not determined            |
| Solubility                    | : Data not available        |

### 9.2. Other information.

None.

## 10. STABILITY AND REACTIVITY.

### 10.1. Reactivity.

Presents no significant reactivity hazard, by itself or in contact with water.

Avoid contact with strong acids.

For use in alcoholic solution it is preferable to use water with a slightly acid pH value (6–6,5).

### 10.2. Chemical stability.

Stable under normal ambient conditions.

### 10.3. Possibility of hazardous reactions.

No dangerous reactions under normal conditions of use.

### 10.4. Conditions to avoid.

Avoid temperatures near or above the flash point. Do not heat closed containers.

### 10.5. Incompatible materials.

Keep away any oxidizing agent or highly alkaline or acidic material.

### 10.6. Hazardous decomposition products.

No dangerous decomposition products known in the recommended storage conditions.

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### 11. TOXICOLOGICAL INFORMATION.

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

##### 11.1.1. Acute toxicity :

See MSDS point 3.

##### 11.1.2. Skin corrosion/irritation :

No toxicological data on the mixture itself.

##### 11.1.3. Serious eye damage/eye irritation :

No toxicological data on the mixture itself.

##### 11.1.4. Respiratory or skin sensitization :

No toxicological data on the mixture itself.

##### 11.1.5. Germ cell mutagenicity :

No toxicological data on the mixture itself.

##### 11.1.6. Carcinogenicity :

No toxicological data on the mixture itself.

##### 11.1.7. Reproductive toxicity :

No toxicological data on the mixture itself.

##### 11.1.8. Summary of evaluation of CMR properties :

No toxicological data on the mixture itself.

##### 11.1.9. Specific target organ toxicity (STOT) - single exposure :

No toxicological data on the mixture itself.

##### 11.1.10. Specific target organ toxicity - repeated exposure :

No toxicological data on the mixture itself.

##### 11.1.11. Aspiration hazard :

No toxicological data on the mixture itself.

#### 11.2. Information on other hazards:

Perfumery products should never be ingested. Keep away from food and drink.

### 12. ECOLOGICAL INFORMATION.

#### 12.1. Toxicity.

This information is not available.

For all substances listed in paragraph 3 and EH classified A1 and / or EH C1, M FACTOR are equal to 1.

#### 12.2. Persistence and degradability.

This information is not available.

#### 12.3. Bioaccumulative potential.

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This information is not available.

### 12.4. Mobility in soil.

This information is not available.

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

This mixture does not contain any ingredients considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or greater.

### 12.6. Endocrine disrupting properties.

The mixture does not contain any ingredients considered to have endocrine disrupting properties according to Article 57(f) of REACH or Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

### 12.7. Other Adverse Effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
If the fragrance is classified as H410: Very toxic to aquatic life with long lasting effects  
If the fragrance is classified as H411: Toxic to aquatic life with long lasting effects.  
If the fragrance is classified as H412: Harmful to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS.

### 13.1. Waste treatment methods.

#### Product :

Must be dumped or incinerated at an approved center while complying with local regulations. Avoid disposal through the sewer and the dispersion in the environment.

#### Contaminated packagings :

Empty containers should be taken to a site approved for the treatment of waste for recycling or disposal.

## 14. TRANSPORT INFORMATION

| Regulatory Information | 14.1<br>UN number<br>or<br>ID number | 14.2<br>Official shipping name | 14.3<br>Class | 14.4<br>Packing group | 14.5<br>Marine<br>pollutant | 14.6<br>Info |
|------------------------|--------------------------------------|--------------------------------|---------------|-----------------------|-----------------------------|--------------|
| ADR                    | none                                 | none                           | ---           | ---                   | ---                         | ---          |
| IATA                   | none                                 | none                           | ---           | ---                   | ---                         | ---          |
| IMDG                   | none                                 | none                           | ---           | ---                   | ---                         | ---          |

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

Not applicable for product as supplied.

## 15. REGULATORY INFORMATION.

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

WGK : 1

Based on the available eco-toxicological data, this product is classified according to the European criteria for the classification of preparations for the environment.

### 15.2. Chemical safety assessment.

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No chemical safety assessment has been carried out for this mixture by the supplier.

### 16. OTHER INFORMATION.

Full text of hazard phrases that appear in paragraph 3 :

| Class/Cat. of hazard | Phrases of hazard                 |
|----------------------|-----------------------------------|
| Aquatic Acute 1      | Acute Aquatic toxicity cat. 1     |
| Aquatic Chronic 1    | Chronic Aquatic toxicity cat. 1   |
| Aquatic Chronic 2    | Chronic Aquatic toxicity cat. 2   |
| Eye Dam. 1           | Eye Damage/eye irritation cat. 1  |
| Eye Irrit. 2         | Eye Damage/eye irritation cat. 2  |
| Skin Irrit. 2        | Skin corrosion/ Irritation cat. 2 |
| Skin Sens. 1         | Skin Sensitization cat. 1         |
| Skin Sens. 1B        | Skin Sensitization cat. 1B        |

Entire text of H phrases appearing in section 3 :

| Hazards | Hazard phrases                                        |
|---------|-------------------------------------------------------|
| H315    | Causes skin irritation.                               |
| H317    | May cause an allergic skin reaction.                  |
| H318    | Causes serious eye damage.                            |
| H319    | Causes serious eye irritation.                        |
| 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.      |

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Legend of abbreviations and acronyms used in the safety data sheet :

ADR: Agreement for the transport of dangerous goods by road.

CE: European Community.

CLP: Classification, Labeling and Packaging.

CMR : Carcinogenic Mutagenic Reprotoxic.

ATE: Acute Toxicity Estimate.

EU : European Union.

IATA: International Air Transport Association.

ID Number : ID number.

IMDG: International Maritime Dangerous Goods.

M: M factor.

No. EINECS: Inventory of chemical substances existing on the Community market.

ELINCS No.: European List of Notified Chemical Substances.

CAS No.: Chemical Abstract Service number.

OMI : International Maritime Organization.

PBT: Persistent, Bioaccumulative and Toxic Substance.

REP: Reproductive Toxicity.

SS: Skin Sensitization.

UFI: Unique Formulation Identifier.

UN : United Nations.

VLEP: Occupational Exposure Limit Value.

VLEPCT: Short-Term Occupational Exposure Limit Value.

vPvB: Very Persistent and very Bioaccumulative substance.

WGK : Water Hazard Class.

GB : Great Britain.

The classification and the procedures used to establish the classification of the mixture, in accordance with EC regulation N°1272/2008 CLP, are based on a calculation method.

Replaces version v10-CLP

Section 2 modified

Section 3 modified

This sheet contains all the data concerning the product that are known at the date of release. The Safety Data Sheet is intended to provide information for a health and safety assessment of the material during transport, storage, or applied in the workplace. Attention to users is drawn to hazards resulting from improper use of the product.

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