

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : Autoclave deodorant, citrus scent  
Trade name : Autoclave deodorant, citrus scent  
EC-No. : 226-394-6  
CAS-No. : 5392-40-5  
Product code : AUDE-001

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

No additional information available

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

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt, SPAIN  
ES  
T +34 937 07 79 70, F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com), [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 (For technical information\_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

| Country/Area   | Organisation/Company  | Address                    | Emergency number | Comment |
|----------------|---|----------------------------|------------------|---------|
| United Kingdom | National Poisons Information Service<br>(Belfast Centre)<br>Royal Victoria Hospital | Grosvenor Road<br>BT12 6BA | 0344 892 0111    |         |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Specific target organ toxicity — Single exposure, Category 3, H335  
Respiratory tract irritation  
Full text of H and EUH statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS07

Signal word (CLP)

: Warning

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|                                |   |
|--------------------------------|---|
| Hazard statements (CLP)        | : H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.   |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                      | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |
|---------------------------|--|---------|--|
| CITRAL                    | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6                              | 20 – 50 | Not classified   |
| GERANIOL                  | CAS-No.: 106-24-1<br>EC-No.: 203-377-1                               | 5 – 10  | Not classified   |
| LAURIC ACID               | CAS-No.: 143-07-7<br>EC-No.: 205-582-1                               | 5 – 10  | Not classified   |
| decanoic acid             | CAS-No.: 334-48-5<br>EC-No.: 206-376-4<br>EC Index-No.: 607-709-00-X | 5 – 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412 |
| TERPENES AND TERPENOIDS   | CAS-No.: 65996-98-7<br>EC-No.: 266-034-5                             | 1 – 5   | Not classified   |
| CITRUS LIMON PEEL EXTRACT | CAS-No.: 84929-31-7<br>EC-No.: 284-515-8                             | 1 – 5   | Not classified   |
| LINALOOL                  | CAS-No.: 78-70-6<br>EC-No.: 201-134-4                                | 1 – 5   | Not classified   |
| NEROL                     | CAS-No.: 106-25-2<br>EC-No.: 203-378-7                               | 1 – 5   | Not classified   |
| PINENE                    | CAS-No.: 80-56-8<br>EC-No.: 201-291-9                                | 1 – 5   | Not classified   |

Full text of H and EUH statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Get medical advice/attention.  |
| First-aid measures after ingestion    | : Do not induce vomiting. Rinse mouth out with water. Get medical advice/attention.   |

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

No additional information available

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

Never give anything by mouth to an unconscious person.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, dry sand, or alcohol-resistant foam.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Emergency procedures : No open flames, no sparks, and no smoking. Do not breathe vapours. Ventilate spillage area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal.

### 6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes.  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly closed.

#### Switzerland

Storage class (LK) : LK 10/12 - Liquids

### 7.3. Specific end use(s)

Laboratory chemicals.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL and PNEC

| Autoclave deodorant, citrus scent (5392-40-5) |                          |
|---|--------------------------|
| <b>DNEL/DMEL (Workers)</b>                    |                          |
| Long-term - systemic effects, dermal          | 1,7 mg/kg bodyweight/day |
| Long-term - local effects, dermal             | 140 µg/cm <sup>2</sup>   |
| Long-term - systemic effects, inhalation      | 9 mg/m <sup>3</sup>      |
| <b>DNEL/DMEL (General population)</b>         |                          |
| Long-term - systemic effects, oral            | 0,6 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation      | 2,7 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal          | 1 mg/kg bodyweight/day   |
| Long-term - local effects, dermal             | 140 µg/cm <sup>2</sup>   |
| <b>PNEC (Water)</b>                           |                          |
| PNEC aqua (freshwater)                        | 0,00678 mg/l             |
| PNEC aqua (marine water)                      | 0,000678 mg/l            |
| PNEC aqua (intermittent, freshwater)          | 0,0678 mg/l              |
| <b>PNEC (Sediment)</b>                        |                          |
| PNEC sediment (freshwater)                    | 0,125 mg/kg dwt          |
| PNEC sediment (marine water)                  | 0,0125 mg/kg dwt         |
| <b>PNEC (Soil)</b>                            |                          |
| PNEC soil                                     | 0,0209 mg/kg dwt         |
| <b>PNEC (STP)</b>                             |                          |
| PNEC sewage treatment plant                   | 1,6 mg/l                 |

#### 8.2. Exposure controls

##### Personal protection equipment

###### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

###### Personal protective equipment symbol(s):



##### Eye and face protection

###### Eye protection:

Safety glasses

##### Skin protection

###### Hand protection:

Protective gloves against chemicals (EN 374)

##### Respiratory protection

###### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

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### SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Colour  | : light yellow.   |
| Odour   | : lemon-like.   |
| Odour threshold                                 | : Not available   |
| Melting point                                   | : Not available   |
| Freezing point                                  | : Not available   |
| Boiling point                                   | : ≈ 230 °C Atm. press.: 1013 hPa Decomposition: 'yes' Decomp. temp.: 180 °C |
| Flammability                                    | : Not available   |
| Lower explosion limit                           | : Not available   |
| Upper explosion limit                           | : Not available   |
| Flash point                                     | : 72 °C   |
| Auto-ignition temperature                       | : Not available   |
| Decomposition temperature                       | : Not available   |
| pH  | : Not available   |
| Viscosity, kinematic                            | : Not available   |
| Solubility                                      | : Not available   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50 °C                        | : Not available   |
| Density   | : Not available   |
| Relative density                                | : 0,89 Type: 'relative density' Temp.: 20 °C                                |
| Relative vapour density at 20 °C                | : Not available   |
| Particle characteristics                        | : Not applicable  |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Oxidizing agent. Strong reducing agents. Acids. alkali metals.

#### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

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

|                         |                  |
|-------------------------|------------------|
| Acute toxicity (oral)   | : Not classified |
| Acute toxicity (dermal) | : Not classified |

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Acute toxicity (inhalation) : Not classified

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LD50 oral rat ≈ 6800 mg/kg bodyweight Animal: rat

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

### Autoclave deodorant, citrus scent (5392-40-5)

NOAEL (chronic, oral, animal/male, 2 years) 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

### Autoclave deodorant, citrus scent (5392-40-5)

LOAEC (inhalation, rat, gas, 90 days) 68 ppm Animal: rat, Animal sex: female

NOAEL (oral, rat, 90 days) 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

NOAEC (inhalation, rat, gas, 90 days) 34 ppm Animal: rat, Animal sex: female

NOAEL (subchronic, oral, animal/male, 90 days) 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Aspiration hazard : Not classified

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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LC50 - Fish [1] 6,78 mg/l Test organisms (species): Leuciscus idus

EC50 - Daphnia [1] 6,8 mg/l Test organisms (species): Daphnia magna

EC50 72h - Algae [1] 103,8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

### 12.2. Persistence and degradability

### Autoclave deodorant, citrus scent (5392-40-5)

Persistence and degradability Rapidly degradable

### CITRAL (5392-40-5)

Persistence and degradability Rapidly degradable

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| TERPENES AND TERPENOIDS (65996-98-7)   |                    |
|--|--------------------|
| Persistence and degradability          | Rapidly degradable |
| GERANIOL (106-24-1)                    |                    |
| Persistence and degradability          | Rapidly degradable |
| CITRUS LIMON PEEL EXTRACT (84929-31-7) |                    |
| Persistence and degradability          | Rapidly degradable |
| LINALOOL (78-70-6)                     |                    |
| Persistence and degradability          | Rapidly degradable |
| LAURIC ACID (143-07-7)                 |                    |
| Persistence and degradability          | Rapidly degradable |
| decanoic acid (334-48-5)               |                    |
| Persistence and degradability          | Rapidly degradable |
| NEROL (106-25-2)                       |                    |
| Persistence and degradability          | Rapidly degradable |
| PINENE (80-56-8)                       |                    |
| Persistence and degradability          | Rapidly degradable |

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable

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UN-No. (ADN) : Not applicable  
UN-No. (RID) : Not applicable

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable  
Proper Shipping Name (ADN) : Not applicable  
Proper Shipping Name (RID) : Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### ADN

Transport hazard class(es) (ADN) : Not applicable

#### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable



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### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

###### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

###### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

###### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

###### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

###### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

###### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

###### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

##### National regulations

###### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

###### Netherlands

- SZW-lijst van kankerverwekkende stoffen : TERPENES AND TERPENOIDS,CITRUS LIMON PEEL EXTRACT are listed
- SZW-lijst van mutagene stoffen : TERPENES AND TERPENOIDS,CITRUS LIMON PEEL EXTRACT are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

###### Denmark

- Class for fire hazard : Class III-1
- Store unit : 50 liter
- Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                     |
| H315              | Causes skin irritation.   |
| H319              | Causes serious eye irritation.                                    |
| H335              | May cause respiratory irritation.                                 |
| H412              | Harmful to aquatic life with long lasting effects.                |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                             |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.