

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: FA0536  
Product name: Burley flavour

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

Intended use: Flavour for Electronic Cigarettes

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

Name: FLAVOURART SRL  
Full address: Via Delle Industrie 26  
District and Country: 28047 Oleggio (NO)  
Italia  
Tel. +39 0321 960553  
Fax +39 0321 204549

e-mail address of the competent person responsible for the Safety Data Sheet: [supporto@flavourart.it](mailto:supporto@flavourart.it)

#### 1.4. Emergency telephone number

For urgent inquiries refer to: +39 0321 960553  
NHS 111

### SECTION 2. Hazards identification

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

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication: --

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:  
EUH210 Safety data sheet available on request.  
EUH208 Contains: Sage Essential Oil  
May produce an allergic reaction.

Precautionary statements: --

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

| Identification             | x = Conc. %           | Classification 1272/2008 (CLP)  |
|----------------------------|-----------------------|---|
| <b>Sage Essential Oil</b>  |                       |   |
| CAS                        | 8016-63-5             | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412            |
| EC                         | 283-911-8             |   |
| INDEX                      |                       |   |
| Reg. no.                   | Pre-registered        |   |
| <b>Methyl Ethyl Ketone</b> |                       |   |
| CAS                        | 78-93-3               | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066                                |
| EC                         | 201-159-0             |   |
| INDEX                      | 606-002-00-3          |   |
| Reg. no.                   | 01-2119457290-43-XXXX |   |
| <b>Amyl Acetate</b>        |                       |   |
| CAS                        | 628-63-7              | Flam. Liq. 3 H226   |
| EC                         | 211-047-3             |   |
| INDEX                      |                       |   |
| Reg. no.                   | Pre registered        |   |
| <b>Isopentanol</b>         |                       |   |
| CAS                        | 123-51-3              | Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335 |
| EC                         | 204-633-5             |   |
| INDEX                      |                       |   |
| Reg. no.                   | 01-2119493725-26-XXXX |   |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

##### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

##### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures

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

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

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

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

#### 7.3. Specific end use(s)

Information not available

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory References:

|     |                |   |
|-----|----------------|---|
| DEU | Deutschland    | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56                                     |
| ESP | España         | Límites de exposición profesional para agentes químicos en España 2019  |
| FRA | France         | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS  |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81   |
| POL | Polska         | Rozporządzenie Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy   |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)   |
| EU  | OEL EU         | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |

### SECTION 8. Exposure controls/personal protection ... / >>

#### Isopentanol

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW                   | DEU     | 73     | 20  | 146        | 40  |                        |
| VLA                   | ESP     | 366    | 100 | 458        | 125 |                        |
| VLEP                  | FRA     | 360    | 100 |            |     |                        |
| NDS/NDSch             | POL     | 200    |     | 400        |     |                        |
| WEL                   | GBR     | 366    | 100 | 458        | 125 |                        |
| OEL                   | EU      | 18     | 5   | 37         | 10  |                        |

#### Methyl Ethyl Ketone

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW                   | DEU     | 600    | 200 | 600        | 200 |                        |
| VLA                   | ESP     | 600    | 200 | 900        | 300 |                        |
| VLEP                  | FRA     | 600    | 200 | 900        | 300 |                        |
| VLEP                  | ITA     | 600    | 200 | 900        | 300 |                        |
| NDS/NDSch             | POL     | 450    |     | 900        |     |                        |
| WEL                   | GBR     | 600    | 200 | 899        | 300 |                        |
| OEL                   | EU      | 600    | 200 | 900        | 300 |                        |

#### Amyl Acetate

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| AGW                   | DEU     | 270    | 50  | 270        | 50  |                        |
| VLA                   | ESP     | 270    | 50  | 540        | 100 |                        |
| VLEP                  | FRA     | 270    | 50  | 540        | 100 |                        |
| VLEP                  | ITA     | 270    | 50  | 540        | 100 |                        |
| NDS/NDSch             | POL     | 250    |     | 500        |     |                        |
| WEL                   | GBR     | 270    | 50  | 541        | 100 |                        |
| OEL                   | EU      | 270    | 50  | 540        | 100 |                        |

**Legend:**

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

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

| Properties                             | Value            | Information |
|--|------------------|-------------|
| Appearance                             | liquid           |             |
| Colour                                 | colourless       |             |
| Odour                                  | characteristic   |             |
| Odour threshold                        | Not available    |             |
| pH                                     | Not available    |             |
| Melting point / freezing point         | Not available    |             |
| Initial boiling point                  | Not available    |             |
| Boiling range                          | Not available    |             |
| Flash point                            | 100,500°C        |             |
| Evaporation rate                       | Not available    |             |
| Flammability (solid, gas)              | Not available    |             |
| Lower inflammability limit             | Not available    |             |
| Upper inflammability limit             | Not available    |             |
| Lower explosive limit                  | Not available    |             |
| Upper explosive limit                  | Not available    |             |
| Vapour pressure                        | Not available    |             |
| Vapour density                         | Not available    |             |
| Relative density                       | 1,0437           |             |
| Solubility                             | soluble in water |             |
| Partition coefficient: n-octanol/water | Not available    |             |
| Auto-ignition temperature              | Not available    |             |
| Decomposition temperature              | Not available    |             |
| Viscosity                              | Not available    |             |
| Explosive properties                   | Not available    |             |
| Oxidising properties                   | Not available    |             |

### 9.2. Other information

Information not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.  
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

|                                  |   |
|----------------------------------|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture:       | Not classified (no significant component) |
| ATE (Dermal) of the mixture:     | Not classified (no significant component) |

|               |            |
|---------------|------------|
| Isopentanol   |            |
| LD50 (Oral)   | 1300 mg/kg |
| LD50 (Dermal) | 970 mg/kg  |

|                     |                     |
|---------------------|---------------------|
| Methyl Ethyl Ketone |                     |
| LD50 (Oral)         | 2193 mg/kg Ratto    |
| LD50 (Dermal)       | 6480 mg/kg Coniglio |
| LC50 (Inhalation)   | 32000 mg/l/4h Topo  |

|              |                |
|--------------|----------------|
| Amyl Acetate |                |
| LD50 (Oral)  | 6500 mg/kg Rat |

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:  
Sage Essential Oil

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

### SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

|                                   |  |
|-----------------------------------|--|
| Methyl Ethyl Ketone               |  |
| LC50 - for Fish                   | 2993 mg/l/96h Pimephales promelas (Cavedano americano) |
| EC50 - for Crustacea              | 308 mg/l/48h Daphnia magna (Pulce d'acqua grande)      |
| EC50 - for Algae / Aquatic Plants | 1972 mg/l/72h Pseudokirchneriella subcapitata          |

#### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
**CONTAMINATED PACKAGING**  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.





### SECTION 15. Regulatory information ... / >>

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)  
WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                   |  |
|-------------------|--|
| Flam. Liq. 2      | Flammable liquid, category 2                                       |
| Flam. Liq. 3      | Flammable liquid, category 3                                       |
| Acute Tox. 4      | Acute toxicity, category 4   |
| Eye Irrit. 2      | Eye irritation, category 2   |
| Skin Irrit. 2     | Skin irritation, category 2  |
| STOT SE 3         | Specific target organ toxicity - single exposure, category 3       |
| Skin Sens. 1      | Skin sensitization, category 1                                     |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H225              | Highly flammable liquid and vapour.                                |
| H226              | Flammable liquid and vapour.                                       |
| H332              | Harmful if inhaled.  |
| H319              | Causes serious eye irritation.                                     |
| H315              | Causes skin irritation.  |
| H335              | May cause respiratory irritation.                                  |
| H317              | May cause an allergic skin reaction.                               |
| H336              | May cause drowsiness or dizziness.                                 |
| H412              | Harmful to aquatic life with long lasting effects.                 |
| EUH066            | Repeated exposure may cause skin dryness or cracking.              |
| EUH210            | Safety data sheet available on request.                            |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament

### SECTION 16. Other information ... / >>

5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

#### Changes to previous review:

The following sections were modified:

03.