

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

## \* SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name:** STRAWBERRY 18012/21**Article number:** 23412200**UFI:**

RPFH-ROQM-P00N-CRAF

The product does not contain any nanomaterials.

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

**Life cycle stages IS** Use at industrial Sites**Sector of Use SU3** Industrial uses: Uses of substances as such or in preparations at industrial sites**Product category PC28** Perfumes, fragrances**Technical function** Food flavouring**Application of the substance / the mixture**

Flavouring agents

Food

**Uses advised against** Not for personal use in this form or concentration

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

**Manufacturer/Supplier:**

VIORYL S.A.

28th km Athens - Lamia Nat. Road

Afidnes, 190 14

Greece

+30 22950 45100

regulatory@vioryl.gr

**Further information obtainable from:** Regulatory Affairs Department

### 1.4 Emergency telephone number:

Poison centre

(+30) 210 7793777

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

(Contd. on page 2)



## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31


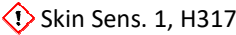
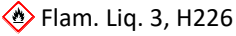

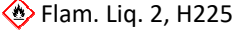
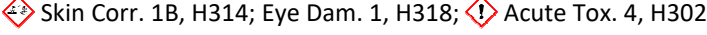
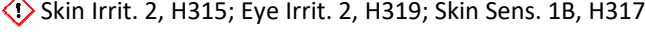
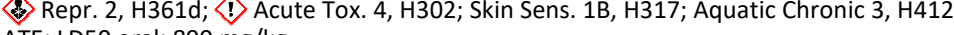
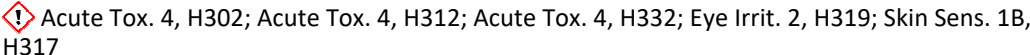
Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 2)

CAS: 97-64-3	ethyl lactate	≥3–≤10%
EINECS: 202-598-0		
CAS: 103-26-4	methyl cinnamate	>2.5–≤10%
EINECS: 203-093-8		
CAS: 7452-79-1	ethyl 2-methylbutyrate	>2.5–≤10%
EINECS: 231-225-4		
CAS: 123-66-0	ethyl hexanoate	≤2.5%
EINECS: 204-640-3		
CAS: 64-17-5	ethanol	≤2.5%
EINECS: 200-578-6		
CAS: 107-92-6	butyric acid	≥1–≤2.5%
EINECS: 203-532-3		
CAS: 78-70-6	Linalool	≥0.1–<1%
EINECS: 201-134-4		
CAS: 119-36-8	methyl salicylate	≥0.1–<1%
EINECS: 204-317-7	 ATE: LD50 oral: 890 mg/kg	
CAS: 100-51-6	Benzyl alcohol	≥0.1–<1%
EINECS: 202-859-9		

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

perfumes (linalool)

**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

If symptoms persist consult doctor.

A person vomiting while laying on their back should be turned onto their side.

Seek immediate medical advice.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4)

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 3)

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.**5.3 Advice for firefighters****Protective equipment:** Mouth respiratory protective device.

## SECTION 6: Accidental release measures

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective clothing.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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

**Storage:****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Ingredients with limit values that require monitoring at the workplace:****CAS: 64-17-5 ethanol**TWA (Greece) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

(Contd. on page 5)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 4)

**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Tightly sealed goggles

## \* SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Colour:**

colourless to pale yellow

**Odour:**

Characteristic

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Undetermined.

**Boiling point or initial boiling point and boiling range**

156–157 °C (CAS: 928-96-1 cis-3-Hexenol)

**Flammability**

Flammable.

**Lower and upper explosion limit****Lower:**

2.6 Vol % (CAS: 57-55-6 Propylene glycol)

**Upper:**

12.6 Vol % (CAS: 57-55-6 Propylene glycol)

**Flash point:**

60–61 °C

(Contd. on page 6)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 5)

<b>Auto-ignition temperature:</b>	371 °C (CAS: 57-55-6 Propylene glycol)
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Mixture is non-soluble (in water).
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>water:</b>	Soluble (0.1%)
<b>alcohols:</b>	Partly soluble.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	0.2 hPa (CAS: 57-55-6 Propylene glycol)
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

**9.2 Other information****Appearance:****Form:** Oily**Important information on protection of health and environment, and on safety.****Ignition temperature:** Product is not selfigniting.**Explosive properties:** Not determined.**Solvent content:****Organic solvents:** 66.2 %**VOC (EC)** 66.22 %**VOCV (CH)** 1.22 %**Solids content:** 8.6 %**Refractive index** 1.432-1.442**Change in condition****Evaporation rate** Not determined.**Information with regard to physical hazard classes****Explosives** Void**Flammable gases** Void**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Flammable liquid and vapour.**Flammable solids** Void**Self-reactive substances and mixtures** Void**Pyrophoric liquids** Void**Pyrophoric solids** Void**Self-heating substances and mixtures** Void**Substances and mixtures, which emit flammable gases in contact with water** Void**Oxidising liquids** Void**Oxidising solids** Void**Organic peroxides** Void**Corrosive to metals** Void

(Contd. on page 7)

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

Trade name: STRAWBERRY 18012/21

(Contd. of page 6)

Desensitised explosives

Void

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral LD50 &lt;33333 mg/kg (rat)

**CAS: 928-96-1 cis-3-Hexenol**

Oral LD50 4700 mg/kg (rat)

Dermal LD50 &gt;5000 mg/kg (rabbit)

**CAS: 3658-77-3 4-Hydroxy-2,5-dimethyl-3(2H)-furanone**

Oral LD50 &lt;2000 mg/kg (rat)

**CAS: 97-64-3 ethyl lactate**

Oral LD50 8200 mg/kg (rat)

Dermal LD50 &gt;5000 mg/kg (rabbit)

**CAS: 103-26-4 methyl cinnamate**

Oral LD50 2610 mg/kg (rat)

**CAS: 64-17-5 ethanol**

Oral LD50 7060 mg/kg (rat)

Inhalative LC50/4 h 20000 mg/l (rat)

**CAS: 107-92-6 butyric acid**

Oral LD50 2000 mg/kg (rat)

Dermal LD50 530 mg/kg (rabbit)

**CAS: 78-70-6 Linalool**

Oral LD50 2790 mg/kg (rat)

Dermal LD50 5610 mg/kg (rabbit)

**CAS: 119-36-8 methyl salicylate**

Oral LD50 890 mg/kg (ATE)

887 mg/kg (rat)

**CAS: 100-51-6 Benzyl alcohol**

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

(Contd. on page 8)

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

Trade name: STRAWBERRY 18012/21

(Contd. of page 7)

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

#### Additional ecological information:

##### General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### European waste catalogue

HP3 Flammable

HP8 Corrosive

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR, IMDG, IATA

UN1760

### 14.2 UN proper shipping name

ADR

1760 CORROSIVE LIQUID, N.O.S. (4-Hydroxy-2,5-dimethyl-3(2H)-furanone, BUTYRIC ACID)

(Contd. on page 9)



# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

Trade name: STRAWBERRY 18012/21

(Contd. of page 8)

**IMDG** CORROSIVE LIQUID, N.O.S. (4-Hydroxy-2,5-dimethyl-3(2H)-furanone, BUTYRIC ACID)

**IATA** Corrosive liquid, n.o.s. (4-Hydroxy-2,5-dimethyl-3(2H)-furanone, BUTYRIC ACID)

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA



**Class** 8 Corrosive substances.

**Label** 8

**14.4 Packing group**

**ADR, IMDG, IATA** II

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Warning: Corrosive substances.

**Hazard identification number (Kemler code):** 80

**EMS Number:** F-A,S-B

**Segregation groups** (SGG1) Acids

**Stowage Category** B

**Stowage Code** SW2 Clear of living quarters.

**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

**Transport/Additional information:****ADR**

**Limited quantities (LQ)** 1L

**Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**Transport category** 2

**Tunnel restriction code** E

**IMDG**

**Limited quantities (LQ)** 1L

**Excepted quantities (EQ)** Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (4-HYDROXY-2,5-DIMETHYL-3(2H)-FURANONE, BUTYRIC ACID), 8, II

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU**

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t

(Contd. on page 10)

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 9)

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

**Department issuing SDS:** Regulatory Affairs department**Contact:**

Regulatory Affairs department  
regulatory@vioryl.gr

**Date of previous version:** 11.04.2024**Version number of previous version:** 2**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 11)



# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.04.2024

Version number 3 (replaces version 2)

Revision: 11.04.2024

**Trade name: STRAWBERRY 18012/21**

(Contd. of page 10)

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**