

Product: ultrapure vanilla oleoresin

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue:12/19/2023 Version: 1

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

1.1. Product identifier

Product name: oleoresin crude 40 fold

Product Number: XXXXX

Product form: Liquid

: Mixture: Flavoring Ingredient

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

Use of the substance/mixture

: Food industry: component

1.3. Details of the supplier of the safety data sheet

UNITED SCIENCE LLC

500 Simmons Drive,

Osceola, WI 54020

Phone: (651) 464-2822

www.unitedscience.com

1.4. Emergency telephone number

Emergency number

: CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and
Canada: +1 703 527 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS07

Eye Irritation 2A H319 Causes serious eye irritation.

2.2 GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible.

The product is classified and labeled according to the Globally Harmonized System (GHS).

2.3 Hazard pictograms



GHS02 Flame



GHS07

GHS02 GHS07

2.4 Signal word Warning

2.5 Hazard statements

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

2.6 Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.7 Classification system:

· NFPA ratings (scale 0 - 4)

Health = 2

Fire = 2

Reactivity = 0

2.8 HMIS-ratings (scale 0 - 4)

Health = 2

Fire = 2

Reactivity = 0

2.9 Other hazards

2.10 Results of PBT and vPvB assessment

2.11 PBT: Not applicable.

2.12 vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Chemical characterization: Mixtures

3.2 Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:		
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CAS: 64-17-5	Ethyl alcohol	10-25%
EINECS: 200-578-6	Flammable Liquids 2, H225; Eye Irritation 2A, H319	
EINECS: 200-289-5		
CAS: 121-33-5	Vanillin	10-25%
EINECS: 204-465-2	Eye Irritation 2A, H319	

SECTION 4: First aid measures

4.1 Description of first aid measures

4.2 General information: Immediately remove any clothing soiled by the product.

4.3 After inhalation: Supply fresh air; consult doctor in case of complaints.

4.4 After skin contact: Immediately rinse with water.

4.5 After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

4.6 After swallowing: If symptoms persist consult doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.2 Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.3 Special hazards arising from the substance or mixture No further relevant information available.

5.4 Advice for firefighters

5.5 Protective equipment: No special measures required.

5.6 Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

5.2 Environmental precautions:

Dilute with plenty of water.

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).

Dispose contaminated material as waste according to item 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.

6.5 Protective Action Criteria for Chemicals

PAC-1:		
CAS: 64-17-5	Ethyl alcohol	1,800 ppm
CAS: 56-81-5	Glycerol	45 mg/m ³
CAS: 100-52-7	Benzaldehyde	4 ppm
CAS: 124-07-2	Caprylic acid	30 mg/m ³
PAC-2:		
CAS: 64-17-5	Ethyl alcohol	3300* ppm
CAS: 56-81-5	Glycerol	180 mg/m ³
CAS: 100-52-7	Benzaldehyde	9.9 ppm
CAS: 124-07-2	Caprylic acid	330 mg/m ³
PAC-3:		
CAS: 64-17-5	Ethyl alcohol	15000* ppm
CAS: 56-81-5	Glycerol	1,100 mg/m ³
CAS: 100-52-7	Benzaldehyde	59 ppm
CAS: 124-07-2	Caprylic acid	2,000 mg/m ³

SECTION 7: Handling and storage

Handling:

7.1 Precautions for safe handling No special precautions are necessary if used correctly.

7.2 Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.3 Conditions for safe storage, including any incompatibilities

· Storage:

7.4 Requirements to be met by storerooms and receptacles:

No special requirements.

Please refer to the product specification and/or Certificate of Analysis for product storage requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

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

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace:	
CAS: 64-17-5 Ethyl alcohol	
PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1000 ppm, A3
CAS: 56-81-5 Glycerol	
PEL	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
CAS: 121-33-5 Vanillin	
WEEL	Long-term value: 10 mg/m ³

Additional information: The lists that were valid during the creation were used as a basis.

8.2 Exposure controls

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.

Breathing equipment: Not required.

8.3 Protection of hands:



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 should be based 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 determined by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: According to product specification
Odor	: According to product specification
Odor threshold	: No Determined
pH	: No Determined
Melting point	: No Determined
Boiling point	: No Determined
Flash point	: 49 °C (120.2 °F)
Flammability (solid, gas)	: Flammable
Ignition temperature	: 425 °C (797 °F)
Decomposition temperature	: Not determined.
Auto igniting	: Product is not selfigniting
Danger of explosion	: Product is not explosive. However, formation of explosive air
Explosion limits:	Lower: 3.5 Vol % Upper: 15 Vol %
Vapor pressure	: 0.1 hPa
Density at 20 °C (68 °F)	: 1.16-1.26 g/cm ³ (9.6802-10.5147 lbs/gal)
Specific Gravity	: 1.160 – 1.260 @ 20 °C (34.1 – 34.3 @ 68 °F)
Relative density	: Not determined.
Vapor density	: Not determined.
Evaporation rate	: Not determined.
Solubility in / Miscibility with Water	: Partly soluble.
Partition coefficient (n-octanol/water)	: Not determined.

Viscosity, kinematic : Not determined.

Viscosity, dynamic : Not determined.

Solvent content:

Organic solvents : 25-40 %

VOC content : 5-10 %

116-126 g/l / 0.97-1.05 lb/gal

9.2. Other information No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****10.3 Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.4 Possibility of hazardous reactions No dangerous reactions known.**10.5 Conditions to avoid** No further relevant information available.**10.6 Incompatible materials:** No further relevant information available.**10.7 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimate)**

Oral LD50 32,286 mg/kg (rat)

Primary irritant effect:**on the skin:** No irritant effect.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories**IARC (International Agency for Research on Cancer)**

CAS: 64-17-5 Ethyl alcohol 1

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

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

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

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

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

Waste treatment methods

· **Recommendation:**

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

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1197
- **UN proper shipping name**
- **DOT** Extracts, flavoring, liquid
- **IMDG** EXTRACTS, FLAVOURING, LIQUID
- **IATA** Extracts, liquid, for flavour or aroma
- **Transport hazard class(es)**
- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

· **IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group**
- **DOT, IMDG, IATA III**
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E,S-D
- **Stowage Category A**
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **DOT**
- **Quantity limitations** On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L
- **IMDG**
- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 1197 EXTRACTS, FLAVOURING, LIQUID, 3, III

SECTION 15: Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Sara
- **Section 355 (extremely hazardous substances):** None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):** All components have the value ACTIVE.
- **Hazardous Air Pollutants:** None of the ingredients is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:** CAS: 64-17-5 Ethyl alcohol
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency):** None of the ingredients is listed.
- **TLV (Threshold Limit Value):** CAS: 64-17-5 Ethyl alcohol A3
- **NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.

· **GHS label elements**

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The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02

GHS07

· **Signal word** Warning

· **Hazard statements**

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.

· **Relevant phrases**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

· **Department issuing SDS:** Product Safety Department

· **Contact:**

Product Safety Department

productsafety@adv-bio.com

· **Date of preparation / last revision** 12/18/2023

· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 3: Flammable liquids – Category 3
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A