



Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

PINEAPPLE AROMATIC EXTRACT

1. Identification of the substance/preparation and the company

Trade name: Pineapple natural aromatic extract
 Utilisation: aromatic raw material for cosmetics and perfumery
 natural flavouring substances
 Supplier company: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania
 identification: Tel/Fax: +40259-436.755, www.elemental.eu
 Emergency: RO: numar national pentru cazuri de urgenta: 021 3183606 Institutul de Sanatate Publica Bucuresti. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 2 (Flam. Liq. 2, H225).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds. This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Highly flammable (F, R 11).

Aquatic environmental hazard, chronic toxicity: harmful (R 52/53).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

2.2. Label elements

Flavouring mixture. In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms : GHS02



Signal Word : DANGER

Hazard statements : H225 Highly flammable liquid and vapour.

Precautionary statements - Prevention : P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response : P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Precautionary statements - Storage : P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary statements - Disposal : P501 Dispose of contents/container with local regulations

2.3. Other hazards

The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH.

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

3. Composition / Information on ingredients

INCI-name: Perfume

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Hazardous components

Identification	(EC) 1272/2008 Note	67/548/EEC	%
ALCOOL ETHYLIQUE			



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INDEX: 603-002-00-5	GHS02	[1]	F	50 <= x % < 100
CAS: 64-17-5	Dgr		F;R11	
EC: 200-578-6	Flam. Liq. 2, H225			
ALLYL HEXANOATE (ALLYL CAPROATE)				
INDEX: I123_68_2	GHS06		T,N	0 <= x % < 2.5
CAS: 123-68-2	Dgr		T;R23-R24	
EC: 204-642-4	Acute Tox. 3, H301		Xn;R22	
	Acute Tox. 3, H311		N;R50/53	
	Skin Irrit. 2, H315			

Information: [1] Substance for which maximum workplace exposure limits are available.

Title for H, EUH and R indications mentioned in section 3:

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H301 + H311 Toxic if swallowed or in contact with skin.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

R 11 Highly flammable.

R 22 Harmful if swallowed.

R 23 Toxic by inhalation.

R 24 Toxic in contact with skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation : In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes : Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin : In the event of an allergic reaction, seek medical attention.

In the event of swallowing : In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed: No data available.

4.3. Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire-fighting Measures

Flammable. Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction In the event of a fire, use : sprayed water or water mist, water with AFFF (Aqueous Film Forming Foam) additive, halon, foam, multipurpose ABC powder, BC powder, carbon dioxide (CO₂).

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction In the event of a fire, do not use: water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, may be formed : carbon monoxide (CO), carbon dioxide (CO₂).



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5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters: Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

For fire-fighters: Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up: Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections: No data available.

7. Handling and Storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling: Always wash hands after handling. Ensure that there is adequate ventilation, especially in confined areas. Fire prevention : Handle in well-ventilated areas. Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits. Prevent the accumulation of electrostatic charges with connections to earth. The mixture can become electrostatically charged : always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel. Recommended equipment and procedures : For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position. Prohibited equipment and procedures : No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities: No data available.

Storage: Keep the container tightly closed in a dry, well-ventilated place. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area. Packaging: Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s): No data available.

8. Exposure Controls and Personal Protection

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
64-17-5	1000 ppm	-	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :



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CAS	VME :	VME :	Excess	Notes		
64-17-5	500 ml/m3	960 mg/m3	2(II)	DFG. Y		
- France (INRS - ED984 :2008) :						
CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
64-17-5	1000	1900	5000	9500	-	84
- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :						
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
64-17-5	1000 ppm	-	-	-	-	-

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.



9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

General information :

Physical state : fluid liquid.

Color: Colourless

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : > 35°C

Flash Point : 19.00 °C.

Vapour pressure (50°C) : not relevant.

Density : 0,895/0,925

Water solubility : Dilutable

Viscosity: $\nu < 7 \text{ mm}^2/\text{s}$ (40°C)

Melting point/melting range : not specified.

Self-ignition temperature : not specified.

Decomposition point/decomposition range : not specified.

9.2. Other information

No data available.

10. Stability and Reactivity

10.1. Reactivity: No data available.

10.2. Chemical stability: This mixture is stable under the recommended handling and storage conditions in section 7.



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10.3. Possibility of hazardous reactions: When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid: Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid : accumulation of electrostatic charges, heating, heat, flames and hot surfaces

10.5. Incompatible materials: not known

10.6. Hazardous decomposition products: The thermal decomposition may release/form : carbon monoxide (CO), carbon dioxide (CO₂).

11. Toxicological Information

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity :

ALLYL HEXANOATE (ALLYL CAPROATE) (CAS: 123-68-2)

Oral route : LD50 = 220 mg/kg

Dermal route : LD50 = 300 mg/kg

11.1.2. Mixture

No toxicological data available for the mixture.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

12. Ecological Information

12.1. Toxicity

12.1.1. Substances

ALLYL HEXANOATE (ALLYL CAPROATE) (CAS: 123-68-2)

Crustacean toxicity : $1 < EC_{50} \leq 10$ mg/l

Species : Daphnia sp.

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

12.3.1. Substances

ALLYL HEXANOATE (ALLYL CAPROATE) (CAS: 123-68-2)

Octanol/water partition coefficient : $3 \leq \log K_{ow} < 4$.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

13. Disposal Considerations

Proper waste management of the mixture and/or its container must be determined in accordance with



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Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste : Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging : Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

14. Transport Information

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

14.1. UN number 1197

14.2. UN proper shipping name: UN1197= EXTRACTS, FLAVOURING, LIQUID

14.3. Transport hazard class(es): Classification : 3

14.4. Packing group: II

14.5. Environmental hazards: --

14.6. Special precautions for user



ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	II	3	33	5 L	601 640C	E2	2	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	-	II	5 L	F-E,S-D	-	E2

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	II	353	5 L	364	60 L	A3	E2
	3	-	II	Y341	1 L	-	-	A3	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

15. Additional Regulatory Information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 618/2012
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

- Container information: No data available.

- Particular provisions: No data available.

- German regulations concerning the classification of hazards for water (WGK) :

WGK 1 (VwVwS vom 27/07/2005, KBws) : Slightly hazardous for water.

15.2. Chemical safety assessment: No data available.

16. Other Information

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

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



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CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

INCI Name	CAS No	Typical Contents in %
2-(TERT-BUTYL PROPIONALDE) (Lilial)	80-54-6	0
3-METHYL-4-(2,6,6 TRIMETHYL-2-CYCLOHEXINE-1-YL)-3-BUTEN-2-ONE	127-51-5	0
AMYL CINNAMAL	122-40-7	0
AMYL CINNAMYL ALCOHOL	101-85-9	0
ANISYL ALCOHOL (Anise alcohol)	105-13-5	0
BENZYL ALCOHOL	100-51-6	0
BENZYL BENZOATE	120-51-4	0
BENZYL CINNAMATE	103-41-3	0
BENZYL SALICYLATE	118-58-1	0
CINNAMAL (Cinnamic Aldehyde)	104-55-2	0
CINNAMYL ALCOHOL	104-51-6	0
CITRAL	5392-40-5	0
CITRONELLOL	106-22-9	0
COUMARIN	91-64-5	0
LIMONENE	5989-27-5	0
EUGENOL	97-53-0	0
FARNESOL	4602-84-0	0
GERANIOL	106-24-1	0
HEXYL CINNAMIC ALDEHYDE (Hexyl Cinnamal)	101-86-0	0
HYDROXYCITRONELLAL	107-75-5	0
HYDROXYMETHYL PENTYL CYCLOHEXENE CARBOXALDEHYDE (Lyrall)	31906-04-4	0
ISO EUGENOL	97-54-1	0
LINALOOL	78-70-6	0
METHYL HEPTINE CARBONATE	111-12-6	0
OAK MOSS EXTRACT (Evernia Prunastri)	90028-68-5	0
TREE MOSS EXTRACT (Evernia Furfuracea)	90028-67-4	0

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at



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the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.