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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

undertaking		ure and of the company/
· 1.1 Product id	entifier	
[.] Trade name: C	Citrus Enhancer Natural	
No further relev	er: 1284 dentified uses of the substance or mixture and use vant information available. the substance / the mixture Flavoring Ingredients	es advised against
 1.3 Details of t Manufacturer/ Advanced Biote 10 Taft Road Totowa, NJ 075 	ech	
Further inform Product Safety productsafety@ 1.4 Emergency Infotrac: 1-800-	nation obtainable from:	
· 2.1 Classificat	<i>Hazards identification</i> ion of the substance or mixture according to Regulation (EC) No 1272/2008	
GHS	02 flame	
Flam. Liq. 2	H225 Highly flammable liquid and vapour.	
GHS	08 health hazard	
Muta. 2	H341 Suspected of causing genetic defects.	
Carc. 1B	H350 May cause cancer.	
Asp. Tox. 1		
<u> </u>	H304 May be fatal if swallowed and enters airway	S.
GHS(H304 May be fatal if swallowed and enters airway	S.
\sim		
\sim	09 environment c 2 H411 Toxic to aquatic life with long lasting effects	
Aquatic Chronic	09 environment c 2 H411 Toxic to aquatic life with long lasting effects	
Aquatic Chronic	09 environment c 2 H411 Toxic to aquatic life with long lasting effects	
Aquatic Chronic Aquatic Chronic GHSC Acute Tox. 4	09 environment c 2 H411 Toxic to aquatic life with long lasting effects 07 H302 Harmful if swallowed.	
Aquatic Chronic Aquatic Chronic GHSC Acute Tox. 4 Skin Irrit. 2	 09 environment c 2 H411 Toxic to aquatic life with long lasting effects 07 H302 Harmful if swallowed. H315 Causes skin irritation. 	
Aquatic Chronic Aquatic Chronic GHSC Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	 09 environment c 2 H411 Toxic to aquatic life with long lasting effects 07 H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. 	



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural (Contd. of page 1) · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS02 GHS07 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: Acetaldehyde Orange oil · Hazard statements H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H350 May cause cancer. H335 May cause respiratory irritation. H304 May be fatal if swallowed and enters airways. H411 Toxic to aquatic life with long lasting effects. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P301+P310 IF SWALLŎWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). P321 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. P330 Rinse mouth. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · 2.3 Other hazards Results of PBT and vPvB assessment · **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

	Bullgerous componer		
	CAS: 8008-57-9	Orange oil	50-100%
/	EC number: 307-891-8	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	

(Contd. on page 3)

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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

	(Cor	ntd. of page 2)	_
CAS: 75-07-0	Acetaldehyde	25-50%	
EINECS: 200-836-8	Acute Tox. 4, H302 ATE: LD50 oral: 700 mg/kg LD50 dermal: 3,540 mg/kg	\mathcal{O}	

• 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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and be sure to 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.

• After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Call for a doctor immediately.
- · 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:

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

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- 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. · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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 section 13. Ensure adequate ventilation.

(Contd. on page 4)





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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

(Contd. of page 3)

Trade name: Citrus Enhancer Natural

· 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

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. 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: Not required.
- Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

• 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: 75-07-0 Acetaldehyde

OEL Short-term value: 45 mg/m³, 25 ppm

· Additional information: The lists valid during the making were used as a 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.

Store protective clothing separately.

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

(Contd. on page 5)



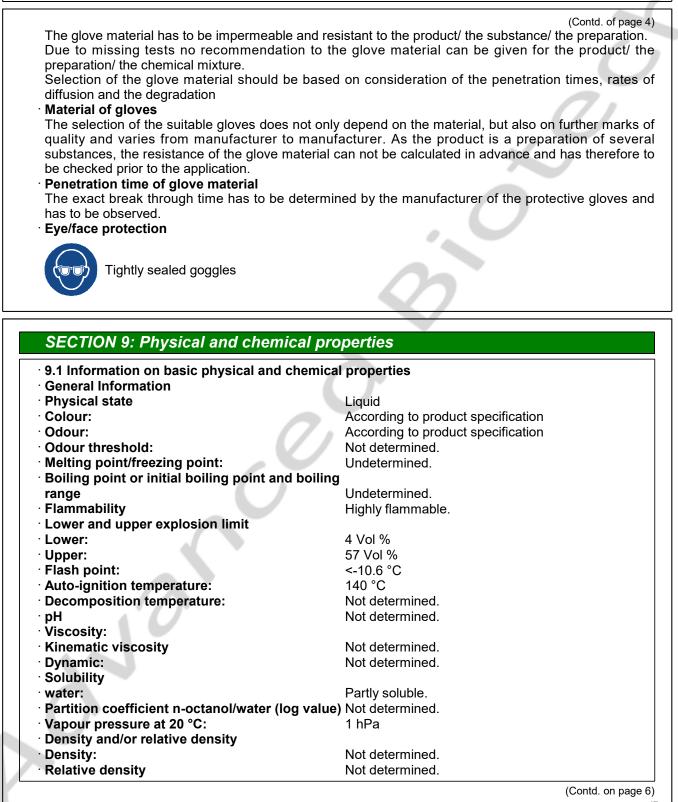
Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

	(Contd. of page 5
Refractive Index	
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of he	alth
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	48.0 %
VOC (EC)	48.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haz classes	Void
Explosives	Void Void
Flammable gases Aerosols	Void Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly 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
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 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.

(Contd. on page 7)



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

(Contd. of page 6)

SECTION 11: Toxicological information

• **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 1,377 mg/kg (rat)

Primary irritant effect:

- · Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Suspected of causing genetic defects.
- · Carcinogenicity May cause cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard May be fatal if swallowed and enters airways.
- 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
- · Remark: Toxic for fish
- · 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.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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.

(Contd. on page 8)



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

(Contd. of page 7)

Trade name: Citrus Enhancer Natural

• Uncleaned packaging:
 • Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1197
14.2 UN proper shipping name	
ADR	1197 EXTRACTS, LIQUID, ENVIRONMENTALI HAZARDOUS
IMDG	EXTRACTS, LIQUID, MARINE POLLUTANT
ΙΑΤΑ	Extracts, liquid
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG	
	0
Class	3 Flammable liquids.
Label	3
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	
14.5 Environmental hazards:	Product contains environmentally hazardo substances: Orange oil
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (lish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler	
EMS Number:	F-E,S-D



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

	(Contd. of page 8
· Stowage Category	В
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
· Transport/Additional information:	$\overline{\mathcal{A}}$
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 Transport category Tunnel restriction code 	2 D/E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1197 EXTRACTS, LIQUID, 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labelling:
- Acetaldehyde
- Orange oil
- · Hazard statements
- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H335 May cause respiratory irritation.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 10)



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

Printing date 17.04.2025

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

	(Contd. of page 9)
 Precautionary st 	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310 P321	IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label).
	3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
P305+P351+P33	water [or shower]. 8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
 Directive 2012/1 	B/EU
 Named dangero 	us substances - ANNEX I None of the ingredients is listed.
 Seveso category 	
E2 Hazardous to	the Aquatic Environment
P5c FLAMMABLE	ELIQUIDS
· Qualifying quan	tity (tonnes) for the application of lower-tier requirements 200 t
Qualifying quan	tity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (E	C) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28
	1/65/EU on the restriction of the use of certain hazardous substances in ectronic equipment – Annex II
None of the ingre	dients is listed.
REGULATION (E	
licensing under	
None of the ingre	dients is listed.
	RTABLE EXPLOSIVES PRECURSORS
None of the ingre	
• • • •	No 273/2004 on drug precursors
None of the ingre	
Community and	b) No 111/2005 laying down rules for the monitoring of trade between the third countries in drug precursors
None of the ingre	dients is listed.
· National regulat	
Workers are not	ut limitation of use: allowed to be exposed to the hazardous carcinogenic materials contained in this potions can be made by the authorities in certain cases.

• **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.

Relevant phrases

H226 Flammable liquid and vapour.



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

Printing date 17.04.2025

P.V.

Version number 1

Revision: 24.01.2025

Trade name: Citrus Enhancer Natural

	(Contd. of page 10)
H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction.	\mathcal{O}
 Department issuing SDS: Product safety department Contact: Product Safety Department productsafety@adv-bio.com Date of previous version: 09.01.2025 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agree 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) 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 4 Skin Irnt. 2: Skin corrosion/irritation – Category 2 Experimt. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensilisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 1 Muta. 2: Germ cell mutagenicity – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 	eement Concerning the