

Safety Data Sheet

CIS-3-HEXENYL ACETATE NATURAL ISOLATE



According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

Version:1
Version date:26/11/2021
Language:EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : CIS-3-HEXENYL ACETATE NATURAL ISOLATE

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

Relevant identified uses : Flavouring substance or raw material for fragrance use.

1.3. Details of the supplier of the safety data sheet

Supplier : Name: Hermitage Oils srl
Street: Località Petrognano 14, 52100 Arezzo (AR)
Country: Italy
Telephone: +39 (0) 575 362831
E-mail: info@hermitageoils.com

1.4. Emergency Telephone Number

Bergamo: +39 (0) 800 883 300, Florence: +39 (0) 55 794 7819, Foggia: +39 (0) 881 732 326, Genoa: +39 (0) 10 563 62 45, Milan: + 39 (0) 02 6610 1029, Padua: +39 (0) 49 827 50 78, Pavia: +39 (0) 38 224 444, Rome: +39 (0) 06 305 43 43, Turin: +39 (0) 011 663 7637

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Hazards identification

Classification	Hazard statements (H)
Flam. Liq. 3	H226 Flammable liquid and vapour.

2.2. Label elements

Labelling

Hazard pictograms



Signal word	Warning
Product identifiers	-
Hazard Statements	H226 - Flammable liquid and vapour.
Supplemental Hazard information (EU)	-
Precautionary Statements - General	-
Precautionary Statements - Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary Statements - Response	P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statements - Storage	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Precautionary Statements - Disposal	P370+P378 - In case of fire: Use... to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to ...

2.3. Other hazards

Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Description

Sum formula: C₈H₁₄O₂
Molecular weight: 142.2

The substance does not contain any substances classified as Substance of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	C (%)	Classification	Specific concentration limits	Note
(Z)-hex-3-enyl acetate CAS N°:3681-71-8 EC N°:222-960-1 IDX N°:	C≤ 100.0%	H226: Flammable liquid and vapour.	-	-

3.3. Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information	:	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Remove the affected person from the danger zone and lay down.
Following inhalation	:	Remove person to fresh air and keep comfortable for breathing.
Following skin contact	:	Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.
Following eye contact	:	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
Following ingestion	:	Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

Self-protection of the first aider : First aider: Pay attention to self-protection!.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

Notes for the doctor : Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

5.2. Special hazards arising from the substance or mixture

- Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

- In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

- Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Use personal protection equipment.
- Remove persons to safety.
- Provide adequate ventilation.

6.2. Environmental precautions

- Ensure that waste is collected and contained.
- Contain leaks or spills within cabinets with removable trays.

6.3. Methods and material for containment and cleaning up

- Treat the recovered material as prescribed in the section on waste disposal.
- Collect in closed and suitable containers for disposal.
- Clean contaminated objects and areas thoroughly observing environmental regulations.
- Ventilate affected area.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

- Safe handling: see section 7.
- Disposal: see section 13.
- Personal protection equipment: see section 8.

6.5. Additional information

Not available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

PROTECTIVE MEASURES

- Avoid contact with skin, eyes and clothes.
- Remove fume condensates periodically from extraction hoods, leads and other surfaces (wear personal protective clothing!) as there is a risk of catching fire.
- Use only in well-ventilated areas.
- If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Provide earthing of containers, equipment, pumps and ventilation facilities.
- Take precautionary measures against static discharges.

Advices on general occupational hygiene

- Wash hands before breaks and after work.
- Remove contaminated, saturated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

- Keep container tightly closed in a dry, cool, and well-ventilated place.
- Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels

- Ensure adequate ventilation of the storage area.
- Ground/bond container and receiving equipment.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on joint storage

- Keep away from food, drink and animal feedingstuffs.
- Keep away from clothing and other combustible materials.
- Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

Further information on storage conditions

- Use explosion-proof electrical/ventilating/lighting/.../equipment.
- Use only non-sparking tools.

7.3. Specific end uses

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

DNEL-/PNEC-values

- (Z)-hex-3-enyl acetate:

DNEL worker

	short-term		long-term	
	systemic	Local	systemic	Local
Oral				
Dermal			3.33mg/kg bw/day	
Inhalation			11.75mg/m ³	

DNEL consumer

	short-term		long-term	
	systemic	Local	systemic	Local
Oral			1.67mg/kg bw/day	
Dermal			1.67mg/kg bw/day	
Inhalation			2.9mg/m ³	

PNEC

Not available

8.2. Exposure controls**Appropriate engineering controls**

Not available

Personal protection equipment

Eye/face protection

:

Suitable eye protection: Wear eye/face protection.

Skin protection

:

Hand protection:

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

- The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection: Wear suitable protective clothing.

Respiratory protection

:

Suitable respiratory protection apparatus: In case of inadequate ventilation wear respiratory protection.

8.3. Additional information

Protective and hygiene measures.

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Colourless
Odour:	Not available
Odour threshold:	Not available
pH:	6.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	166°C
Flash point:	57°C
Evaporation rate:	Not Determined
Flammability:	Not Applicable
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	2,14 Hpa
Vapour density:	Not Determined
Relative density:	Not available
Solubility(ies):	1.1 G/l
Partition coefficient: n-octanol/water (Log	Not Determined

KOC):	
Auto-ignition temperature:	Not Applicable
Decomposition temperature:	Not Determined
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not Oxidizing
Solubility in other Solvents:	Not Determined
Log Kow:	Not available

9.2. Other safety information

Melting point: <-20 °C.
 Ignition temperature: 302 °C.
 Density at 20 °C: 0.89 g/cm³.
 Solid content: 0%.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Flammable, Ignition hazard.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Not available

10.6. Hazardous decomposition products

No known hazardous decomposition products.

10.7. Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Acute oral toxicity

Data for mixture

Not available

Substances

(Z)-hex-3-enyl acetate (CAS: 3681-71-8)

Species	:	Rat
Sex	:	Not available
Guideline	:	Not available

Subendpoint	Operator	Value	Unit
LD50:	>	5000	mg/kg bw

Conclusion : Not available

11.2. Acute skin toxicity**Data for mixture**

Not available

Substances**(Z)-hex-3-enyl acetate (CAS: 3681-71-8)**

Species : Rabbit
 Sex : Not available
 Guideline : Not available
 Exposure duration/value : Not available
 Exposure duration/unit : Not available

Subendpoint	Operator	Value	Unit
LD50:	>	5000	mg/kg bw

Conclusion : Not available

11.3. Acute inhalation toxicity**Data for mixture**

Not available

Substances

Not available

11.4. Skin corrosion**Data for mixture**

Not available

Substances

Not available

11.5. Eye damage**Data for mixture**

Not available

Substances

Not available

11.6. Skin sensitisation**Data for mixture**

Not available

Substances

Not available

11.7. STOT SE**Data for mixture**

Not available

Substances

Not available

11.8. STOT RE**Data for mixture**

Not available

Substances

Not available

11.9. Carcinogenicity**Data for mixture**

Not available

Substances

Not available

11.10. Reproductive and Developmental Toxicity**Data for mixture**

Not available

Substances

Not available

11.11. Genotoxicity**Data for mixture**

Not available

Substances

Not available

11.12. Respiratory sensitisation**Data for mixture**

Not available

Substances

Not available

11.13. Additional information

Not available

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity**

Not available

Acute aquatic toxicity**Substances****(Z)-hex-3-enyl acetate (CAS: 3681-71-8)**

Animals/category : Fish
 Species : Oncorhynchus mykiss
 Test duration : 96
 Unit : h
 Guideline : Not available

Subendpoint	Value	Unit
LC50:	13	mg/L

Remarks : Not available

Animals/category : Algae
 Species : Pseudokirchneriella subcapitata.
 Test duration : 72
 Unit : h
 Guideline : Not available

Subendpoint	Value	Unit
ErC50:	85	mg/L

Remarks : Not available

Animals/category : Crustacea
 Species : Daphnia magna
 Test duration : 48
 Unit : h
 Guideline : Not available

Subendpoint	Value	Unit
EC50	31	mg/L

Remarks : Not available

12.2. Persistence and degradability

Not available

Biodegradation

Substances

(Z)-hex-3-enyl acetate (CAS: 3681-71-8)

Inoculum	:	Not available
Guideline	:	OECD 301
Test duration	:	28
Unit	:	days

Parameter	Degradation rate	Unit
-	65	%

Remarks : Readily biodegradable

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

Not available

12.7. Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

- The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options





- Waste requiring special supervision.
- Dispose of waste according to applicable legislation.
- Delivery to an approved waste disposal company.
- Non-contaminated packages must be recycled or disposed of.
- Contaminated packing must be completely emptied and can be reused after proper cleaning.
- Packing which cannot be properly cleaned must be disposed of.
- Handle contaminated packages in the same way as the substance itself.
- Dispose of waste according to applicable legislation.

Remark

- For recycling, contact manufacturer.
- Collect the waste separately.
- Consult the appropriate authorities about waste disposal.
- Do not mix with other wastes.
- The waste is to be kept separate from other types of waste until its disposal.

- Concerning the waste it has to be checked, whether a transport authorisation is required.

SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI/IATA-DGR)
14.1. UN number	3272	3272	3272	3272
14.2. UN proper shipping name	ESTERS, N.S.A.	ESTERS, N.S.A.	ESTERS, N.S.A.	ESTERS, N.S.A.
14.3. Transport hazard class(es)				
Class or Division	3	3	3	3
Hazard label(s)				
14.4. Packing group	III	III	III	III

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no.

14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

14.8. Additional information

Not available

SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.
This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

For this substance/mixture a chemical safety assessment has been elaborated.

For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

15.3. Additional information

Not available

SECTION 16: OTHER INFORMATION

Creation date: 26/11/2021
Version date: 26/11/2021
Printing date: 03/12/2021

16.1. Indication of changes

Not applicable (first edition of the MSDS).

16.2. Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flam. Liq. 3	Flammable liquid and vapour.
------	--------------	------------------------------

16.6. Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.