



Material safety data sheet

According to EU Regulation 1907/2006 in the current version

Volatile Vege-Silicone

1. Identification of the substance/mixture and company

Trade name: Volatile Vege-Silicone
Emolient
INCI Undecane (and) Tridecane
CAS No. : 1120-21-4 / 629-50-5
EINESCS No. : -
REACH pre-registration No. : -
Utilization: Raw material for cosmetic or professional use
Supplier company identification: **Elemental SRL**, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

According to UN GHS criteria

Asp. Tox. 1
Flam. Liq. 4

For the classifications not written out in full in this section the full text can be found in section 16.

2.2 Label elements

Globally Harmonized System (GHS)



Pictogram:

Signal Word: Danger

Hazard Statements:

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/face protection.

Precautionary Statements (Response):

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use extinguishing powder, foam or CO ₂ for extinction.

Precautionary Statements (Storage):

P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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According to UN GHS criteria

Hazard determining component(s) for labeling: Hazard determining component(s) for labeling: n-Alkane, C11-C13

2.2 Other hazards

According to UN GHS criteria

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Declaration of ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: Blend based on: n-Alkane, C11-C13

Hazardous ingredients (GHS) According to UN GHS criteria

Substance	CAS	EINECS/EC	Hazard symbols	Percent %
n-Alkane C11 – C13	-	-	Asp. Tox. 1 Flam. Liq. 4 H227, H304	>= 70

For the classifications not written out in full in this section the full text can be found in section 16.

4. First aid measures

4.1 Description of first aid measures

If inhaled: Fresh air.

On skin contact: Wash affected areas thoroughly with soap and water.

On contact with eyes: Rinse immediately with plenty of running water (for 15 minutes), seek medical attention from a specialist.



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On ingestion: Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far.

Hazards: No hazard is expected under intended use and appropriate handling.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: dry powder, alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture

Harmful vapors.

The product is combustible. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for fire-fighters

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Keep containers cool by spraying with water if exposed to fire.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Cover with blanket of foam (alcohol-resistant foam). Pump off product.

Dispose of absorbed material in accordance with regulations.

7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion: The product is combustible. Vapors may form explosive mixture with air. Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame. If exposed to fire, keep containers cool by spraying with water.



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7.2 Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Carbon steel (Iron)

Unsuitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Protect containers from physical damage.

Storage stability:

Storage temperature: ≤ 30 °C

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure controls / personal protection

8.1 Control parameters

Components with occupational exposure limits:

629-50-5: Tridecane
1120-21-4: Undecane

8.2 Exposure controls

Personal protective equipment:

Respiratory protection: Respiratory protection not required.

Hand protection: Suitable are protective gloves with the following specification. The recommendation is valid for laboratory conditions, specific workplace conditions must be taken into consideration separately. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness

Eye protection: Safety glasses

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form: liquid

Color: colorless

Odor: almost odorless

Odor threshold: not applicable

pH value: not applicable

Flash point: approx. 74 °C (DIN EN 22719; ISO 2719)

Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.



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Flammability: not flammable

Flammability of Aerosol Products: not applicable, the product does not form flammable aerosols

Lower explosion limit: For liquids not relevant for classification and labeling.

Upper explosion limit:

For liquids not relevant for classification and labeling.

Ignition temperature: > 195 °C

Vapor pressure: < 0,5 hPa (25 °C) Literature data.

Density: 0,75 g/cm³ (20 °C)

Relative vapor density (air): not applicable

Solubility in water: insoluble

Solubility (qualitative) solvent(s): distilled water insoluble

Partitioning coefficient n-octanol/water (log Kow): not determined

Self ignition: not applicable

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: <= 7 mPa·s (20,0 °C)

Viscosity, kinematic: not determined

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

9.2 Other Information

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and reactivity

10.1 Reactivity

When heated can give off ignitable vapors.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

None if used for intended purpose.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage. Avoid all sources of ignition: heat, sparks, open flame.

10.5 Incompatible materials

Substances to avoid: No substances known that should be avoided.

10.6 Hazardous decomposition products

Hazardous decomposition products: No hazardous decomposition products known.



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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.
Virtually nontoxic by inhalation.
Experimental/calculated data: LD50 (oral): > 2.000 mg/kg

Irritation

Assessment of irritating effects: Not irritating to the eyes.
Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization: No sensitizing effect.
Experimental/calculated data: Patch-Test human: Non-sensitizing. (Human patch test)

Germ cell mutagenicity

Assessment of sensitization: The chemical structure does not suggest a specific alert for such an effect

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect

Developmental toxicity

Assessment of teratogenicity: No data was available concerning toxicity to development

Specific target organ toxicity (single exposure)

Assessment of STOT single: Based on available Data, the classification criteria are not met.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Aspiration hazard

May also damage the lung at swallowing (aspiration hazard).

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.



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12. Ecological information

12.1 Toxicity

Assessment of aquatic toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish: LC50 > 100 mg/l

Microorganisms/Effect on activated sludge: ECO > 100 mg/l

12.2 Persistence and degradability

Assessment biodegradation and elimination (H₂O): Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Assessment bioaccumulation potential: No data available.

12.4 Mobility in soil

Assessment transport between environmental compartments: Volatility: not applicable

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent /bioaccumulative /toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7 Additional information

Other ecotoxicological advice: The local regulations on waste-water treatment must be followed.

13. Disposal considerations

13.1 Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

14. Transport information

14.1 Land transport

ADR

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable



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Environmental hazards:	Not applicable
Special precautions for user	None known

RID

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.2 Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known
Transport in inland waterway vessel:	Not evaluated

14.3 Sea transport

IMDG

Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.4 Air transport



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Not classified as a dangerous good under transport regulations	
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.5 UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.6 UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.7 Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.8 Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.9 Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.10 Special precautions for user See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.11 Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

15. Regulatory information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Additional information



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Information on intended use: This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

16.1 Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.

16.2 Abbreviations:

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

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

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.

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 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.