

SAFETY DATA SHEET**Filasophia Adhesive**

Commission Regulation (EU) 2020/878 of 18 June 2020.
According to Regulation (EC) No 1907/2006, Annex II, as amended.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name Filasophia Adhesive
UFI 5NA0-H0V9-U006-UPSE

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

Identified uses 3D Printing Material
Uses advised against No specific uses advised against are identified. Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier Anaks Araştırma Geliştirme Endüstriyel Tasarım Sanayi ve Ticaret Limited Şirketi
Minareliçavusob Mahallesi, NOSAB, Zeytin Cadde, No:12 16140
Nilüfer, Bursa, Türkiye
T: +90(224) 411 19 06

Contact person Anıl Akseki - anilakseki@anaks.com.tr

1.4. Emergency telephone number

Emergency telephone 0 (224) 411 19 06
Call the supplier's phone number.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification (SI 2019 No. 720)
Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317
Environmental hazards Not Classified
Additional information Classification (Regulation (EC) No. 1272/2008).

2.2. Label elements**Hazard pictograms**

Signal word Warning
Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.
Contains (R)-p-mentha-1,8-diene

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated light	25-40%
CAS number: 64742-47-8	EC number: 265-149-8
Classification	
Asp. Tox. 1 - H304	
(R)-p-mentha-1,8-diene	15-25%
CAS number: 5989-27-5	EC number: 227-813-5
M factor (Acute) = 1	
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1B - H317	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
Skin contact	Wash with plenty of water. Continue to rinse for at least 10 minutes. Take off contaminated clothing. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Overexposure may cause the following adverse effects: Headache. Dizziness.
Ingestion	Nausea, vomiting.
Skin contact	Redness. Severe irritation. Allergic rash. Dryness and/or cracking.
Eye contact	Redness. Pain. Itchiness.



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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 Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Take care as floors and other surfaces may become slippery. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. Promptly remove any clothing that becomes contaminated. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.
See Section 11 for additional information on health hazards.
See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Do not handle until all safety precautions have been read and understood. Wear protective clothing as described in Section 8 of this safety data sheet. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Do not handle broken packages without protective equipment. Do not reuse empty containers. Persons susceptible to allergic reactions should not handle this product. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray.

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Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not smoke in work area. Clean equipment and the work area every day.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Keep away from oxidising materials, heat and flames.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limit value is known for constituent substances.

(R)-p-mentha-1,8-diene (CAS: 5989-27-5)

DNEL	Workers - Inhalation; Long term systemic effects: 66.7 mg/m ³ Workers - Dermal; Long term systemic effects: 9.5 mg/kg bw/d General population - Inhalation; Long term systemic effects: 16.6 mg/m ³ General population - Dermal; Long term systemic effects: 4.8 mg/kg bw/d General population - Oral; Long term systemic effects: 4.8 mg/kg bw/d
PNEC	Fresh water; 14 µg/l marine water; 1.4 µg/l STP; 1.8 µg/l Sediment (Freshwater); 3.85 mg/kg, dry weight Sediment (Marinewater); 0.385 mg/kg, dry weight Soil; 0.763 mg/kg, dry weight Oral (secondary poisoning); 133 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate ventilation. Provide shower facilities near the workplace.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield. It must comply with the EN166 standard.

Hand protection Wear protective gloves. Frequent changes are recommended. It must comply with the EN374 standard. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Önerilen eldivenler: Nitril, neopren.

Other skin and body protection May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate skin cream to prevent drying of skin.

Hygiene measures Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Clean equipment and the work area every day.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked.



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Environmental exposure controls Keep container tightly sealed when not in use. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light yellow Orange.
Odour	Characteristic. Lemon.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	64°C TS EN ISO 13736
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	Kinematic viscosity > 20.5 mm ² /s.
Explosive properties	No information available.
Oxidising properties	No information available.
Particle characteristics	Not applicable.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.



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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause skin sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.



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Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

11.2. Information on other hazards

Information on other hazards This product does not contain any known or suspected endocrine disruptors.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated light

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 5280 mg/m³, Inhalation, Rat

(R)-p-mentha-1,8-diene

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg bw/d, Oral, Rat (OECD Guideline 423)

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg bw/d, Dermal, Rabbit Read-across data.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation. Rabbit

Animal data

Dose: 0.5 ml, 4 hour, Rabbit, (OECD Test Guideline 404) Not fully reversible in 7 day

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. OECD Guideline 429

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No specific test data are available.

Ecological information on ingredients.



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Distillates (petroleum), hydrotreated light

Acute toxicity - fish	LL ₅₀ , 96 hour: 2-5 mg/l, Oncorhynchus mykiss (Rainbow trout)
	NOEL, 96 hour: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

(R)-p-mentha-1,8-diene

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
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M factor (Acute)	1
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Acute toxicity - fish	EC ₁₀ , 8 day: 0.37 mg/l, Pimephales promelas (Fat-head Minnow)
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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hour: 0.307 mg/l, Freshwater invertebrates
	EC ₁₀ , 21 day: 0.153 mg/l, Freshwater invertebrates

Acute toxicity - aquatic plants	EC ₅₀ , 72 hour: 0.32 mg/l, Pseudokirchneriella subcapitata
	EC ₁₀ , 72 hour: 0.174 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms	EC ₅₀ , 3 hour: 209 mg/l, Activated sludge (OECD 209)
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12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

(R)-p-mentha-1,8-diene

Persistence and degradability The substance is readily biodegradable. (OECD 301D)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

(R)-p-mentha-1,8-diene

Bioconcentration factor (BCF) 690.1 l/kg

12.4. Mobility in soil

Mobility No data available.

Ecological information on ingredients.

(R)-p-mentha-1,8-diene

Adsorption/desorption coefficient - K_{oc}: 2413 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.



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12.7. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk according to IMO instruments Not applicable.



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SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. Commission Regulation (EU) 2020/878 of 18 June 2020. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	Not relevant.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation
Key literature references and sources for data	This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.
Classification procedures according to SI 2019 No. 720	Skin Irrit. 2 - H315: Calculation method. Skin Sens. 1 - H317: Calculation method.



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Revision comments	Revised formulation.
Issued by	Büşra TARAKCI / CRAD gbf@crad.com.tr Tel+90 216 3354600
Revision date	07/03/2025
Revision	2.0
Supersedes date	20/02/2023
SDS number	13687
Hazard statements in full	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.