# Safety Data Sheet
# AIR FILTER SPRAY

EXPERTS IN LUBRICANTS

**Safety Data Sheet dated 5/10/2022, version 1**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Mixture identification:
Trade name: AIR FILTER SPRAY

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Air filter oil

1.3. Details of the supplier of the safety data sheet
Company:
NILS S.p.A.
Via Stazione, 30
39014 Postal (BZ)

e-mail: nils@nils.it
www.nils.eu
Tel. +39 0473 29 24 00
Fax +39 0473 29 12 44
Competent person responsible for the safety data sheet:
schedasicurezza@nils.it
1.4. Emergency telephone number
CAV "Ospedale Pediatrico Bambino Gesù" - Roma - Tel. +39 06 6859 37 26

CAV "Azienda Ospedaliera Università di Foggia" - Foggia - Tel. 800 183 459

CAV "Azienda Ospedaliera A. Cardarelli" - Napoli - Tel. +39 081 545 33 33

CAV Policlinico "Umberto I" - Roma - Tel. +39 06 4997 80 00

CAV Policlinico "A. Gemelli" - Roma - Tel. +39 06 305 43 43

CAV Aziedna Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 794 78 19

CAV Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24 444

CAV Ospedale Niguarda - Milano - +39 02 66 10 10 29

CAV Azienda Ospedaliera Papa Giovanni XXIII - Bergamo - Tel. 800 88 33 00

CAV Centro Antiveleni Veneto - Verona - Tel. 800 011 858
Tel. +39 0473 29 24 00
Fax +39 0473 29 12 44

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
Warning, Aerosols 2, Flammable aerosol. Pressurized container: may burst if heated.
Warning, Skin Irrit. 2, Causes skin irritation.

Warning, Repr. 2, Suspected of damaging fertility or the unborn child in contact with skin and if swallowed.
Warning, STOT SE 3, May cause drowsiness or dizziness.
Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.
Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H223, H229 Flammable aerosol. Pressurized container: may burst if heated.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child in contact with skin and if swallowed.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful 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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P331 Do NOT induce vomiting.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Special Provisions:

None

Contains

n-hexane

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

## SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | | Classification |
|---|---|---|---|---|
| >= 30% - < 40% | propane | Index number:<br>CAS:<br>EC: | 601-003-00-5<br>74-98-6<br>200-827-9 | 2.2/1 Flam. Gas 1 H220<br>2.5/L Press Gas (Liq.) H280 |

| | | | |
|---|---|---|---|
| >= 20% - < 25% | n-hexane | Index number: 601-037-00-0<br>CAS: 110-54-3<br>EC: 203-777-6<br>REACH No.: 01-21194804 12-44 | 2.6/2 Flam. Liq. 2 H225<br>3.7/2 Repr. 2 H361<br>3.10/1 Asp. Tox. 1 H304<br>3.9/2 STOT RE 2 H373<br>3.2/2 Skin Irrit. 2 H315<br>3.8/3 STOT SE 3 H336<br>4.1/C2 Aquatic Chronic 2 H411<br>Specific Concentration Limits:<br>C >= 5%: STOT RE 2 H373 |

Other information:

## SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
Rinse skin with shower.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Take off contaminated clothing and wash it before reuse.
In case of eyes contact:
Remove contact lenses, if present and easy to do. Continue rinsing.
Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief.
OBTAIN A MEDICAL EXAMINATION.
If eye irritation persists: Get medical advice/attention.
In case of Ingestion:
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Do NOT induce vomiting.
Do not administer anything by mouth if the subject is unconscious and unless authorised by a doctor.

In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
Immediately call a doctor.
4.2. Most important symptoms and effects, both acute and delayed
No available information.
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
No information available.

## SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:

Carbon dioxide (CO2).
In case of fire, use a foam fire extinguisher to extinguish.
In case of fire, use a dry powder fire extinguisher to extinguish.
Water spray

Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
Pressurized container: may burst if heated.

5.3. Advice for firefighters
Wear a safety helmet before approaching the fire.

Avoid inhaling the fumes.
Keep containers cool with water spray.
Airline Hood or Mask + Gloves + Full suit + Boots

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non emergency personnel:
Remove all sources of ignition.
Remove persons to safety.
Wear personal protection equipment.
For emergency responders:
Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Collect with absorbent substances (sand, kieselguhr, diatomite, acid binder, universal binder).

For cleaning up:
Ensure sufficient ventilation of the place affected by the leak.

Treat the displaced material according to indications in Section 13 - "Information for disposal".

6.4. Reference to other sections
Hazardous combustion products: see Sect. 5
Precautions for safe handling: see Sect. 7
Individual protection measures: see Sect. 8
Incompatible materials: see Sect. 10
Enviornmental precautions: see Sect. 12
Disposal considerations: see Sect. 13

## SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid accumulating electrostatic charge.
Do not spray on a naked flame or any incandescent material.
Vapours can form an explosive mixture with air.

Advice on general occupational hygiene:
Do not eat, drink or smoke when using this product.
Avoid breathing fume/gas/mist/vapours/spray.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

Air filter oil

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AIR FILTER SPRAY
- OEL Type: EU - STEL: 176 mg/m3

n-hexane - CAS: 110-54-3
- OEL Type: EU - TWA(8h): 72 mg/m3, 20 ppm

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Protective glasses (mask-shaped) according to DIN EN 166

Protection for skin:

Wear long sleeved work clothes and category II safety footwear for professional use (ref. Regulation 2016/425 and ISO 20344).
Take off immediately all contaminated clothing.

Protection for hands:

Only CE-marked protective gloves tested according to EN 374 may be worn when working with chemicals. Protective gloves must be selected for each workplace depending on the concentration and type of harmful substances after consultation with the supplier. Establish a healing period for skin regeneration. Preventive protection of the skin is recommended (protective creams/pomades). Wash hands thoroughly after use.
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

In case the substance considered is odourless or its odour threshold is higher than the relevant TLV-TWA, and in case of emergency,
Combination filter conforming to EN 14387, type A-P2

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Appropriate engineering controls:

Provide eyewash stations.

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes |
|---|---|---|---|
| Physical state: | Gas | -- | -- |
| Colour: | N.A. | -- | -- |
| Odour: | | -- | -- |
| Melting point/freezing point: | N.A. | -- | -- |
| Pour point | N.A. | -- | -- |
| Drop point | N.A. | -- | -- |
| Boiling point or initial boiling point and boiling range: | N.A. | -- | -- |
| Flammability: | N.A. | -- | -- |
| Lower and upper explosion limit: | N.A. | -- | -- |
| Flash point: | N.A. | -- | -- |
| Auto-ignition temperature: | N.A. | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| pH: | N.A. | -- | -- |
| Kinematic viscosity: | <= 14 mm2/sec (40 °C) | -- | -- |
| Solubility in water: | | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Density and/or relative density: | N.A. | -- | -- |
| Relative vapour density: | N.A. | -- | -- |
| Particle characteristics: | | | |
| Particle size: | N.A. | -- | -- |

9.2. Other information

No other relevant information

## SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Excessive heat.

10.5. Incompatible materials

Acids, bases and strong oxidizing agents

Reducing agents

10.6. Hazardous decomposition products

None.

## SECTION 11: Toxicological information

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

Toxicological information of the product:

AIR FILTER SPRAY

a) acute toxicity

Not classified
Based on available data, the classification criteria are not met
b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
The product is classified: Repr. 2 H361
h) STOT-single exposure
The product is classified: STOT SE 3 H336
i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
j) aspiration hazard
The product is classified: Asp. Tox. 1 H304
Toxicological information of the main substances found in the product:
n-hexane - CAS: 110-54-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 5000 mg/kg

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
AIR FILTER SPRAY
The product is classified: Aquatic Chronic 3 - H412
propane - CAS: 74-98-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 49.9 mg/l - Duration h: 96 h - Notes: US Environmental Protection
Endpoint: ErC50 - Species: Algae = 19.37 mg/l - Duration h: 96 h - Notes: USEPA OPPT Risk Assessment
Endpoint: EC50 - Species: Daphnia = 69.43 mg/l - Duration h: 48 h - Notes: USEPA OPPT Risk Assessment
12.2. Persistence and degradability
n-hexane - CAS: 110-54-3
Biodegradability: Readily biodegradable - %: 0.1-100 mg/l
12.3. Bioaccumulative potential
propane - CAS: 74-98-6
Test: Log Pow 1.09
n-hexane - CAS: 110-54-3

Test: BCF - Bioconcentrantion factor 501.187
Test: Kow - Partition coefficient 4

12.4. Mobility in soil
n-hexane - CAS: 110-54-3
Test: Koc 3.34

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects
None

## SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information

14.1. UN number or ID number

| | |
|---|---|
| ADR-UN number: | 1950 |
| IATA-Un number: | UN 1950 |
| IMDG-Un number: | UN 1950 |

14.2. UN proper shipping name

| | |
|---|---|
| ADR-Shipping Name: | AEROSOLS |
| IATA-Technical name: | AEROSOLS, FLAMMABLE |
| IMDG-Technical name: | AEROSOLS |

14.3. Transport hazard class(es)

| | |
|---|---|
| ADR-Class: | 2 |
| ADR-Label: | 2.1 |
| IATA-Class: | 2 |
| IATA-Label: | 2.1 |
| IMDG-Class: | 2 |

14.4. Packing group

| | |
|---|---|
| ADR-Packing Group: | - |
| IATA-Packing group: | - |
| IMDG-Packing group: | - |

14.5. Environmental hazards

| | |
|---|---|
| Marine pollutant: | Marine pollutant |
| IMDG-EMS: | F-D, S-U |

14.6. Special precautions for user

| | |
|---|---|
| IATA-Passenger Aircraft: | 203 / 75 kg |
| IATA-Cargo Aircraft: | 203 / 150 kg |
| IMDG-Technical name: | AEROSOLS |

14.7. Maritime transport in bulk according to IMO instruments
N.A.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 40

Restrictions related to the substances contained:

Restriction 29
Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

National legislation

Limitations for workers: Respect the employment limits according to Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H225 Highly flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child in contact with skin and if swallowed.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

| Hazard class and hazard category | Code | Description |
|---|---|---|
| Flam. Gas 1 | 2.2/1 | Flammable gas, Category 1 |
| Aerosols 2 | 2.3/2 | Aerosol, Category 2 |
| Press Gas (Liq.) | 2.5/L | Gases under pressure (Liquefied gas) |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Repr. 2 | 3.7/2 | Reproductive toxicity, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| STOT RE 2 | 3.9/2 | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |
| Aquatic Chronic 3 | 4.1/C3 | Chronic (long term) aquatic hazard, category 3 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|---|
| Aerosols 2, H223, H229 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Repr. 2, H361 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Asp. Tox. 1, H304 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

| | |
|---|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| 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. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| 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. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |