



Safety Data Sheet  
SPRAY PULITORE ADDITIVO UV  
ELKE S.r.l.  
VIA XXV APRILE 202, 10042, NICHELINO (TO) ITALIA  
REA di TO: 987683 P.Iva 08613670010  
Tel. n. +39 011 9622412

## Safety Data Sheet dated 29/11/2022, version 6

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

#### 1.1. Product identifier

Mixture identification:

Trade name: SPRAY PULITORE ADDITIVO UV

Trade code: 11.021

UFI: Y770-G00J-V004-71C0

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

Recommended use:

PRODUCTS FOR AIR CONDITIONING SYSTEMS

product for cleaning and washing

Uses advised against:

do not use for purposes other than those indicated.

do not use on humans and animals

#### 1.3. Details of the supplier of the safety data sheet

Company:

ELKE S.r.l. Via XXV Aprile 202 10042 Nichelino (To) Italia.

Tel. n. +39 011 9622412

Competent person responsible for the safety data sheet:

Domenico Amosso info@elke-ac.com

#### 1.4. Emergency telephone number

Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda -Milano)

Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)

Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)

Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)

Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)

Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

Centro Antiveleni di Verona 800 011858 (CAV Ospedale AOUI- Verona)

Centro Antiveleni di Foggia 800 183459 (CAV Policlinico Riuniti-Foggia)

Centro Antiveleni di Roma 06 68593726(CAV Ospedale Bambino Gesù-Roma)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):



Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.



Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H336 May cause drowsiness or dizziness.

**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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of container in accordance with national regulation.

**Contains**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

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

None

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

**Other Hazards:**

section 10.3








## 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   |
|------------------------|---|--|--|
| $\geq 50\% - < 60\%$   | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | CAS: 64742-48-9<br>EC: 919-857-5<br>REACH No.: 01-2119463258-33-xxxx                               |  3.10/1 Asp. Tox. 1 H304<br> 3.8/3 STOT SE 3 H336<br> 2.6/3 Flam. Liq. 3 H226 |
| $\geq 20\% - < 25\%$   | propane   | Index number: 601-003-00-5<br>CAS: 74-98-6<br>EC: 200-827-9<br>REACH No.: 01-2119486944-21-0046    |  2.2/1 Flam. Gas 1 H220<br> 2.5 Press. Gas H280  |
| $\geq 10\% - < 12.5\%$ | Hydrocarbons, C4; Petroleum gas                                     | Index number: 649-113-00-2<br>CAS: 87741-01-3<br>EC: 289-339-5<br>REACH No.: 01-2119480480-41-xxxx |  2.5 Press. Gas H280<br> 2.2/1 Flam. Gas 1 H220<br>DECLK (CLP)*  |

\*DECLK (CLP): This substance is classified in accordance with Note K, Annex VI of EC Regulation CE 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in



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which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

For symptoms and effects due to the contained substances see chapter 11

### 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:

Follow the doctor's instructions.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Water.

### 5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Do not inhale explosion and combustion gases.

### 5.3. Advice for firefighters

Normal elements for fire fighting, such as a self-contained compressed air open-circuit respirator (EN 137), fire-retardant suit (EN469), flame-retardant gloves (EN 659) and fire boots (HO A29 or A30).

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Keep containers cool with water spray.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.



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#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Use localized ventilation system.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat, drink or smoke when using this product.

Wash hands after use

#### 7.2. Conditions for safe storage, including any incompatibilities

store in a cool, well ventilated place, away from heat, flames, sparks or other sources of ignition

keep only in the original container away from sunlight neighborhoods

avoid contact with skin and eyes, inhalation of vapours/mists/dusts.

do not use empty containers before they are cleaned.

contaminated clothing must be replaced before entering the dining areas.

at work do not eat or drink.

do not smoke

avoid the accumulation of electrostatic charges.

Always keep in a well ventilated place.

Store at below 50 °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:

Cool and adequately ventilated.

#### 7.3. Specific end use(s)

surface degreasing agent

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

propane - CAS: 74-98-6

ACGIH

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

#### 8.2. Exposure controls



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**Eye protection:**

Eye glasses with side protection. EN 166

**Protection for skin:**

Wear work clothes with long sleeves and protective footwear for professional use of category II (ref. Directive 89/686 / CEE and norm EN ISO 20344). Wash with soap and water after removing protective clothing.

**Protection for hands:**

Protect hands with category II work gloves (ref. Directive 89/686 / EEC and standard EN 374). Use PVC or nitrile rubber gloves.

**Respiratory protection:**

if the TLV thresholds are exceeded, use a mask with filter type A (against vapors of organic compounds) in accordance with EN 141.

**Thermal Hazards:**

Do not expose to temperatures exceeding 50° c.

**Environmental exposure controls:**

emissions from production processes, including those from ventilation equipment should be inspected for the purposes of enforcement of environmental protection  
do not dispose of the product in the environment

**Appropriate engineering controls:**

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| Properties  | Value                              | Method: | Notes: |
|---|------------------------------------|---------|--------|
| Physical state:   | Liquid                             | --      | --     |
| Colour:   | Colourless                         | --      | --     |
| Odour:  | of solvent                         | --      | --     |
| Melting point/freezing point:                             | <-20°C fase liquida                | --      | --     |
| Boiling point or initial boiling point and boiling range: | >200°C fase liquida                | --      | --     |
| Flammability:   | Flammable                          | --      | --     |
| Lower and upper explosion limit:                          | Not Relevant                       | --      | --     |
| Flash point:  | < 0 ° C                            | --      | --     |
| Auto-ignition temperature:                                | 400° C gas                         | --      | --     |
| Decomposition temperature:                                | Not Relevant                       | --      | --     |
| pH:   | Not Relevant                       | --      | --     |
| Kinematic viscosity:                                      | > 20,5 mm <sup>2</sup> /sec (40°C) | --      | --     |
| Solubility in water:                                      | undissolvable                      | --      | --     |
| Solubility in oil:  | complete                           | --      | --     |
| Partition coefficient n-octanol/water (log value):        | Not Relevant                       | --      | --     |
| Vapour pressure:  | 4 bar +/-                          | --      | --     |
| Density and/or relative density:                          | 0.790 kg/l +/- 0.05                | --      | --     |
| Relative vapour density:                                  | >2                                 | --      | --     |
| Particle characteristics:                                 |                                    |         |        |
| Particle size:  | N.A.                               | --      | --     |



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## 9.2. Other information

| Properties            | Value        | Method: | Notes: |
|-----------------------|--------------|---------|--------|
| Explosive properties: | section 10.3 | --      | --     |
| Fat Solubility:       | complete     | --      | --     |

## SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - avoid contact with strong acids and bases and oxidizing agents.
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - may form explosive vapor / air mixtures in places not well ventilated
  - avoid mixing the product with strong oxidizers and strong acids
- 10.4. Conditions to avoid
  - avoid the accumulation of electrostatic charges.
  - keep away from heat, sources of ignition
- 10.5. Incompatible materials
  - oxidizing agents
  - strong acids and flammable liquids
- 10.6. Hazardous decomposition products
  - the product is flammable, following combustion can lead to the formation of dangerous decomposition products
  - gas can be formed by thermal decomposition of hydrogen chloride, phosgene, chlorine
  - by thermal decomposition can rid COx

## SECTION 11: Toxicological information

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

Toxicological information of the product:

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- a) acute toxicity
  - Not classified
  - Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
  - Not classified
  - Based on available data, the classification criteria are not met
- 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
  - Not classified
  - Based on available data, the classification criteria are not met
- h) STOT-single exposure
  - The product is classified: STOT SE 3 H336



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i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

N.A.

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

SPRAY PULITORE ADDITIVO UV

Not classified for environmental hazards

Based on available data, the classification criteria are not met

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

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  $\geq 0.1\%$

12.7. Other adverse effects

None

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## 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.

Additional disposal information:

contaminated packaging should be sent for recovery or disposal in compliance with national regulations on waste management

reuse if possible. Product residues are to be considered hazardous waste. disposal must be entrusted to authorised waste management, in compliance with national and, where appropriate, local.

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## SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN number: 1950

IATA-Un number: 1950

IMDG-Un number: 1950

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE AEROSOLS

IATA-Technical name: FLAMMABLE AEROSOLS

IMDG-Technical name: FLAMMABLE AEROSOLS

14.3. Transport hazard class(es)

ADR-Class: 2.5°F CAP. 2.2.2.1.6 UN1950





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- IATA-Class: 2.1  
IMDG-Class: 2 Aerosols UN 1950  
14.4. Packing group  
ADR-Packing Group: N.A.  
IATA-Packing group: N.A.  
IMDG-Packing group: N.A.  
14.5. Environmental hazards  
Marine pollutant: No  
14.6. Special precautions for user  
ADR-Transport category (Tunnel restriction code): D  
IMDG-Technical name: FLAMMABLE AEROSOLS  
14.7. Maritime transport in bulk according to IMO instruments  
N.A.

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## 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:  
None  
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  
  
15.2. Chemical safety assessment  
No Chemical Safety Assessment has been carried out for the mixture.

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## SECTION 16: Other information

Text of phrases referred to under heading 3:





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H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.  
H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

| Hazard class and hazard category | Code   | Description  |
|----------------------------------|--------|--|
| Flam. Gas 1                      | 2.2/1  | Flammable gas, Category 1                                    |
| Aerosols 1                       | 2.3/1  | Aerosol, Category 1  |
| Press. Gas                       | 2.5    | Gases under pressure   |
| Flam. Liq. 3                     | 2.6/3  | Flammable liquid, Category 3                                 |
| Asp. Tox. 1                      | 3.10/1 | Aspiration hazard, Category 1                                |
| STOT SE 3                        | 3.8/3  | Specific target organ toxicity - single exposure, Category 3 |

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 14: Transport information

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 1, H222, H229                                    | On basis of test data    |
| STOT SE 3, H336   | 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.



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|           |   |
|-----------|---|
| 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.  |