

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.11.2022

Revision: 21.12.2021

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

· **1.1 Product identifier**

· **Trade name:** ARDAP Spray (BAuA-Reg.-Nr. N-76620)

· **UFI:** MV6M-K736-0677-4HFN

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

No further relevant information available.

· **Application of the substance / the mixture**

Insecticide

Biocide - PT 18

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Ardap Care GmbH

Franzstr. 95

D-46395 Bocholt

Tel.: +49 (0) 2871 -2487-0 | Fax: -66

Internet: www.ardapcare.com | E-mail: info@ardapcare.com

· **Further information obtainable from:**

Sales Department (via central phone number)

Tel.: +49 (0) 2871 -2487-0

· **1.4 Emergency telephone number:**

Central phone number

Tel.: +49 (0) 2871 -2487-0

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02

GHS07

GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane

Propan-2-ol

Acetone

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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 spray.

P262 Do not get in eyes, on skin, or on clothing.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

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

P501 Dispose of container with content as special waste.

Additional information:

Contains Permethrin (ISO), Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide. May produce an allergic reaction.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

Without sufficient ventilation formation of explosive mixtures may be possible.

Contains biocidal products: Permethrin (ISO), Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide, piperonyl butoxide / PBO

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures****Description:**

Mixture: consisting of the following components.

Active ingredients: 8,2 g/kg permethrin, 10 g/kg piperonyl butoxide, 1 g/kg Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide; organic solvents; fragrance; propellant.

Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (< 0,1 % 1,3-butadiene) ⚠ Flam. Gas 1A, H220; Press. Gas (Liq.), H280	25-50%
CAS: 64742-49-0 EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥15-≤25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Liq.), H280	10-25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	≥10-≤15%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%

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CAS: 93685-81-5 EINECS: 297-629-8 Reg.nr.: 01-2120752626-49	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated / Isododecane ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; Aquatic Chronic 4, H413	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	Isobutane (< 0,1 % 1,3-butadiene) ⚠ Flam. Gas 1A, H220; Press. Gas (Liq.), H280	2.5-10%
CAS: 51-03-6 EINECS: 200-076-7	piperonyl butoxide / PBO ⚠ Aquatic Chronic 2, H411	1%
CAS: 52645-53-1 EINECS: 258-067-9	Permethrin (ISO) ⚠ Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=1000); ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	0.82%
CAS: 89997-63-7 EINECS: 289-699-3	Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	0.1%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

EC-Numbers beginning with "9" are numbers given by ECHA for the purpose of registration according REACH. Eventually mentioned CAS-numbers valid for countries which are not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture** Risk of bursting in case of fire heat**5.3 Advice for firefighters****Protective equipment:** Wear fully protective suit.**Additional information** Cool endangered receptacles with water spray.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with skin / eyes and inhalation.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid inhalation and contact with the skin and the eyes.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

· **Further information about storage conditions:** Protect from heat and direct sunlight.

· **Recommended storage temperature:** 15 - 35°C, max. 50°C

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 Butane (< 0,1 % 1,3-butadiene)

WEL (Great Britain)

Short-term value: 1810 mg/m³, 750 ppm

Long-term value: 1450 mg/m³, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane

TWA (8H) (Great Britain)

Long-term value: 1000 mg/m³, 250 ppm

67-63-0 Propan-2-ol

WEL (Great Britain)

Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

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67-64-1 Acetone

<i>WEL (Great Britain)</i>	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
<i>IOELV (EU)</i>	Long-term value: 1210 mg/m ³ , 500 ppm

110-54-3 n-hexane

<i>WEL (Great Britain)</i>	Long-term value: 72 mg/m ³ , 20 ppm
<i>IOELV (EU)</i>	Long-term value: 72 mg/m ³ , 20 ppm

· DNELs**64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane**

<i>Oral</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	699 mg/kg BW/ day (.)
<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	699 mg/kg BW /day (.) 699 mg/kg BW /day (hum)
<i>Inhalative</i>	<i>DNEL Arbeiter / Workers/ Travailleur</i>	773 mg/kg BW /day (.)
	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	608 mg /m3 (.)
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	2,035 mg /m3 (.)

67-63-0 Propan-2-ol

<i>Oral</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	26 mg/kg BW/ day (.) <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets</i> Overall assessment factor (AF): 2
<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	319 mg/kg BW /day (.) <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets</i> Overall assessment factor (AF): 2
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	888 mg/kg BW /day (.) <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets</i> Overall assessment factor (AF): 1
<i>Inhalative</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	89 mg /m3 (.) <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets</i> Overall assessment factor (AF): 2
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	500 mg /m3 (.) <i>chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets</i> Overall assessment factor (AF): 1

67-64-1 Acetone

<i>Oral</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	62 mg/kg BW/ day (.)
<i>Dermal</i>	<i>DNEL - Endverbraucher/ Consumers / Consommateur</i>	62 mg/kg BW /day (.)
	<i>DNEL Arbeiter / Workers/ Travailleur</i>	186 mg/kg BW /day (.)
<i>Inhalative</i>	<i>DNEL Endverbraucher/ Consumers / Consommateur</i>	200 mg /m3 (.)

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DNEL Arbeiter / Workers/ Travailleur	1,210 mg /m ³ (.)
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· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

110-82-7 cyclohexane

WEL (Great Britain)	Short-term value: 1050 mg/m ³ , 300 ppm Long-term value: 350 mg/m ³ , 100 ppm
IOELV (EU)	Long-term value: 700 mg/m ³ , 200 ppm

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

Measurement of the concentration must be done in accordance with DIN EN 482 and DIN EN 689.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Respiratory protection is needed in case of exceeding the concentration limits.

Half- or full mask with filter type A2-P2/3

· **Protection of hands:**

· **Material of gloves**



If contamination is possible, use gloves made of nitrile according EN 374

· **Penetration time of glove material** > 480 min / 0,4 mm thickness

· **Eye protection:**



Safety glasses in case of spittings

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Aerosol
Colour:	Colourless
Odour:	lemon-like
Odour threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	-44 °C value concerns to propellant

· **Flash point:** -97 °C
concerns to propellant

· **Flammability (solid, gas):** Contains extremely flammable liquefied gas

· **Ignition temperature:** 250 °C

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· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.
· Explosion limits:	
Lower:	0.8 Vol %
Upper:	12.0 Vol %
Pressure (20°C)	3.0 - 5.0 bar
· Density at 20 °C:	ca. 0.629 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	ca. 40.5 %
· 9.2 Other information	
Additional information	Vapors are heavier than air.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **10.3 Possibility of hazardous reactions**
By use or incidental release the formation of explosive vapor/air mixtures is possible.
By use or incidental release the formation of explosive vapor/air mixtures is possible.
- **10.4 Conditions to avoid** Avoid the use in the near of ignition sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** In case of fire the formation of toxic gases is possible.
- **Additional information:** Stable for a storage time of min. 24 months

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

106-97-8 Butane (< 0,1 % 1,3-butadiene)

Inhalative	LC50/4 h	658 mg/l (rat)
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64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>25 mg/l (rat)

74-98-6 propane

Inhalative	LC50/4 h	>20 mg/l (rat)
	LC50 /15 min	1,443 mg/l (rat)

67-63-0 Propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

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67-64-1 Acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,400 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)
75-28-5 Isobutane (< 0,1 % 1,3-butadiene)		
Inhalative	LC50/4 h	>20 mg/l (rat)
51-03-6 piperonyl butoxide / PBO		
Oral	LD50	7,181 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.9 mg/l (rat)
52645-53-1 Permethrin (ISO)		
Inhalative	LC50/4 h	2.3 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

64742-49-0 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane

LC 50 / 96 h <10 mg / l (fis)

89997-63-7 Chrysanthemum cinerariaefolium extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical carbon dioxide

EC 50 / 48h 12 mg / l (daphnia)

LC 50 / 96 h 0.0052 mg / l (Regenbogenforelle / Rainbow trout)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

Ecotoxicological effects:

· **Remark:** Very toxic for fish

Additional ecological information:

General notes:

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
empty cans: material recycling
filled cans: remove in accordance with local regulations

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950

- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
- **IMDG** AEROSOLS (Permethrin (ISO), Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <5% n-hexane), MARINE POLLUTANT
- **IATA** AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2.5F Gases.
- **Label** 2.1

- **IMDG**



- **Class** 2.1 Gases.
- **Label** 2.1

- **IATA**



- **Class** 2.1 Gases.
- **Label** 2.1

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· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: piperonyl butoxide / PBO, Permethrin (ISO) Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code · Segregation Code	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code · Remarks:	1L Code: E0 Not permitted as Excepted Quantity 2 D Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombus with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgross weight) or more.
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.

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- **Seveso category**
E1 Hazardous to the Aquatic Environment
P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

67-64-1	Acetone
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· **National regulations:**

· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

Class	Share in %
I	0.5
NK	38.4

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.11.2022

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Trade name: ARDAP Spray

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vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Liq.): Gases under pressure – Liquefied gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

*** Data compared to the previous version altered.**

GB