

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

AQUA Spray Unscented

Creation date	08th September 2025	Revision no.	
Revision date		Version	1.0

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

1.1. Product identifier

Substance / mixture	AQUA Spray Unscented
Number	mixture
UFI	180-000293
Other mixture names	UYG2-D07X-400H-FS63
UFI: UYG2-D07X-400H-FS63, AQUA SPRAY UNSCENTED	

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

Mixture's intended use
The mixture is used as a filling for training collars.

Mixture uses advised against
not available

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	VNT electronics s.r.o.
Address	Dvorská 605, Lanškroun, 56301
	Czech Republic
Identification number (CRN)	64793826
VAT number	CZ64793826
Phone	+420732622663
Email	vnte@vnte.cz
Web address	www.vnte.cz

Competent person responsible for the safety data sheet

Name	Pavel Horák
Email	info@ekoplant.cz

1.4. Emergency telephone number

Toxicological Information Center, Na Bojišti 1, 120 00 Praha 2, Czech Republic. Emergency Telephone: +420 224 91 92 93 or +420 224 91 54 02, www.tis-cz.cz

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Press. Gas (liquefied gas), H280

2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazard statements

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

P102	Keep out of reach of children.
P280	Wear protective gloves/eye protection.
P410+P403	Protect from sunlight. Store in a well-ventilated place.

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Label elements for packages not exceeding 125 ml

Hazard pictogram



Signal word

Warning

2.3. Other hazards

Vapours are heavier than air and may cause asphyxiation by displacing oxygen. Rapid evaporation of the liquid may cause frostbite. This substance/mixture contains no components considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher. This substance/mixture contains no components considered to have endocrine-disrupting properties according to REACH Article 57(f), Commission Delegated Regulation (EU) 2017/2100, or Commission Regulation (EU) 2018/605, at levels of 0.1 % or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Not applicable

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

none

SECTION 4: First aid measures

4.1. Description of first aid measures

In any case, avoid chaotic behaviour. In case medical treatment is required, always take the original packaging with the label and, if available, the safety data sheet. In life-threatening conditions, first attempt resuscitation of the affected person and ensure medical assistance. If breathing stops – immediately start artificial respiration. If the heart stops – immediately perform indirect cardiac massage. If unconscious – place the affected person in the recovery position on their side. The situation must always be assessed with regard to the rescuer's safety and the safety of the casualty. Enter a contaminated area only if equipped with appropriate protection (self-contained breathing apparatus, mask with suitable filter, back-up by another worker, etc.). **WARNING!** In poorly ventilated areas, always assume contamination! When handling contaminated clothing or other objects, use appropriate personal protective equipment including gloves. First aid should not be carried out at the accident site if there is a risk of contamination of the rescuer.

If inhaled

If inhaled, move the affected person to fresh air. If irritation develops and persists, seek medical attention.

If on skin

Rapid evaporation of the liquid may cause frostbite. If frostbite symptoms appear, immerse (do not rub) the affected area in lukewarm (not hot) water. If water is not available, wrap the affected area in clean, soft cloth or similar covering. If irritation develops and persists, seek medical attention.

If in eyes

In case of eye contact, rinse thoroughly with plenty of water. Seek medical attention immediately.

If swallowed

Due to its physical properties, ingestion is unlikely and not expected to be hazardous. As this product is a gas, refer to the section on inhalation.

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

If inhaled

not available

If on skin

not available

If in eyes

not available

If swallowed

not available

4.3. Indication of any immediate medical attention and special treatment needed

Decontamination. Symptomatic treatment. For more detailed information on health effects and symptoms, see Section 11.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Firefighting measures should be adapted to surrounding conditions. Water mist, dry powder, foam, carbon dioxide (CO₂).

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Heating may cause pressure build-up and risk of bursting. Cool containers exposed to fire with water spray. The product is not flammable under normal conditions. However, it may ignite when mixed with air under pressure and exposed to strong ignition sources. Prevent leakage from the fire site into drains or watercourses. Vapours are heavier than air and may displace oxygen, leading to suffocation. Specific hazards from toxic combustion and decomposition products. Fire may release: Hydrogen fluoride, carbon oxides, carbonyl halides, halogenated compounds.

5.3. Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus. Exposure to decomposition products may pose health risks. Firefighting measures should be adapted to surrounding conditions. Cool tanks with water spray during fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure good ventilation. Vapours are heavier than air and may displace oxygen, leading to suffocation. Avoid skin contact with escaping liquid (risk of frostbite). Use appropriate protective equipment. Keep personnel away and on the windward side.

6.2. Environmental precautions

Prevent further leakage or spillage if it can be done without risk. The product evaporates rapidly. Prevent spreading (e.g. by diking or using an oil barrier).

6.3. Methods and material for containment and cleaning up

Do not direct water jet at the point of leakage. Allow to evaporate.

6.4. Reference to other sections

see Sections 7, 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use suitable PPE. Use only in well-ventilated areas with a supply of fresh air or adequate ventilation. Do not eat, drink, or smoke while working. Wash hands after use. Comply with legal regulations on occupational health and safety. Container is under pressure: protect from sunlight and do not expose to temperatures above 50 °C. Do not pierce or burn, even after use. Exhaust ventilation is essential. Do not spray into fire or onto hot surfaces. Protect from direct sunlight. Fire or intense heat may cause violent rupture of the container. Vapours form explosive mixtures with air. Product is difficult to ignite.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original containers in a dry, cool, and well-ventilated place. Store upright to prevent leaks. Keep away from food, feed, and medicines. Do not store with: oxidising agents.

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Storage class

2B - Aerosol dispensers and lighters

Storage temperature

25 °C

7.3. Specific end use(s)

see Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Technical measures and appropriate work practices take precedence over PPE. Observe general hygiene principles. Do not eat, drink, or smoke at work. Wash hands with warm water and soap before breaks and after work.

Eye/face protection

Safety glasses with side shields or face shield; eye and face protection for occupational use (EN ISO 16321-1).

Skin protection

Work clothing (EN ISO 13688) and footwear (EN ISO 20347 ED.2 and ISO 20345 ED.2). Protective clothing against liquid chemicals (EN 14605+A1). Protective clothing against chemicals (EN 943-1+A1/13982-1/13034+A1).

Glove material	Thickness	Breakthrough time	Class	Exposure time
Nitrile (NBR)	≥ 0.4 mm	>10 min	1	Short-term, Repeated

Respiratory protection

In case of insufficient ventilation, use suitable respiratory protective equipment. Self-contained breathing apparatus (EN 133).

Thermal hazard

Containers may explode if overheated.

Environmental exposure controls

Prevent unnecessary release into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

physical state

gas at 20 °C

form

gas under pressure: liquefied gas

color

data not available

Odour

faintly ether-like

pH

7 (undiluted)

Melting point/freezing point

data not available

Initial boiling point and boiling range

-19 °C

Flash point

data not available

Flammability (solid, gas)

non-inflammable

Upper/lower flammability or explosive limits

explosive limits

data not available

Vapour pressure

4.271 hPa at 20 °C

Solubility(ies)

solubility in water

0.373 g/l

Partition coefficient: n-octanol/water

log Pow 1.6

Auto-ignition temperature

368 °C

Decomposition temperature

data not available

Viscosity

Kinematic viscosity

data not available

Density

1.17 g/cm³ at 21.1 °C

9.2. Other information

relative vapour density

4 ((vzduch - 1,0))

VOC content: 100%

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SECTION 10: Stability and reactivity

10.1. Reactivity

Not expected under proper conditions of use.

10.2. Chemical stability

azardous decomposition products formed during fire. Do not overheat to avoid thermal decomposition.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Follow handling and storage conditions as specified in Section 7.

10.5. Incompatible materials

Strong oxidising agents, strong acids, strong bases. Reaction with alkali metals.

10.6. Hazardous decomposition products

Halogenated compounds, carbon oxides, hydrogen fluoride, carbonyl halides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

trans -1,3,3,3-tetrafluorprop-1-en (EINECS: 471-480-0)

Acute toxicity

not available

AQUA Spray Unscented						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀	OECD 403	207000 ppm	4 hours	Rat (Rattus norvegicus)	

Skin corrosion/irritation

not available

AQUA Spray Unscented				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	OECD 404		Rabbit

Serious eye damage/irritation

not available

Respiratory or skin sensitisation

not available

AQUA Spray Unscented				
Route of exposure	Result	Exposure time	Species	Sex
	Not sensitizing		Human	

Germ cell mutagenicity

not available

AQUA Spray Unscented					
Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 473			Human lymphocytes	
Negative	OECD 474	4 hours	Bone marrow	Mouse	

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Carcinogenicity

not available

Reproductive toxicity

not available

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Effect	Parameter	Method	Value	Result	Species	Sex
	NOEL	OECD 416	>20000 ppm		Rat (Rattus norvegicus)	
Maternal toxicity	NOEC	OECD 414	15000 ppm		Rat (Rattus norvegicus)	F

Toxicity for specific target organ - single exposure

not available

Toxicity for specific target organ - repeated exposure

not available

AQUA Spray Unscented

Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex
Inhalation (gases)	NOEL	OECD 413	5000 ppm	96 days		Rat (Rattus norvegicus)	

Aspiration hazard

not available

SECTION 12: Ecological information

12.1. Toxicity

not available

Acute toxicity

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Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	OECD 203	>117 mg/l	96 hours	Fish (Cyprinus carpio)		Static system
NOEC	OECD 201	>170 mg/l	72 hours	Algae and other aquatic plants		Indicator of growth
NOEC	OECD 201	>170 mg/l	72 hours	Algae		Biomass
EC ₅₀	OECD 202	>160 mg/l	48 hours	Daphnia (Daphnia magna)		Static system

12.2. Persistence and degradability

Biodegradability: aerobic. Result: substance poorly biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation expected (log Pow ≤ 4).

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances assessed as PBT or vPvB at concentrations of 0.1% by weight or above.

12.6. Other adverse effects

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Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of container as hazardous waste in accordance with applicable regulations.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Packaging waste type code

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number

UN 3163

14.2. UN proper shipping name

LIQUEFIED GAS, N.O.S. (LIQUEFIED GAS, N.O.S. (TRANS-1,3,3,3-TETRAFLUOROPROP-1-ENE))

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

Additional information

Hazard identification No.

20

UN number

3163

Classification code

2A

Safety signs

2.2



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Road transport - ADR

Special provisions	274, 392, 662
Limited quantities	120 ml
Excepted quantities	E1

Packaging

Packing instructions	P200
Mixed packing provisions	MP9

Portable tanks and bulk containers

Guidelines	(M), T50
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ADR tank

Tank code	PxBN(M)
Special provisions	TA4, TT9
Vehicles for tank carriage	AT
Transport category	3
Tunnel restriction code	(C/E)

Special provision for

loading, unloading and handling	CV9, CV10, CV36
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Railway transport - RID

Special provisions	274, 392, 662
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Packaging

Packing instructions	P200
Mixed packing provisions	MP9

Portable tanks and bulk containers

Guidelines	(M), T50
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RID Tanks

Tank code	PxBN(M)
Special provisions	TA4, TT9
Transport category	3

Special provision for

loading, unloading and handling	CW9, CW10, CW36
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Marine transport - IMDG

EmS (emergency plan)	F-C, S-V
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SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H280	Contains gas under pressure; may explode if heated.
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Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P280	Wear protective gloves/eye protection.
P410+P403	Protect from sunlight. Store in a well-ventilated place.

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Other important information about human health protection

not available

Key to abbreviations and acronyms used in the safety data sheet

ADR	Agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

not available

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.