

AIRDUSTER NON-FLAMMABLE

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

1.1 - Product identifier

Trade name/designation AIRDUSTER NON-FLAMMABLE

Chemical name

Product-type Mixture

Product code 723.400 / 743.300 UFI: R8JJ-U459-020C-DN78

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

Relevant identified uses

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH

Wolfener Str. 32-34 D-12681 Berlin Germany

Telefon: +49 (0)30 / 36 46 40 36 gunnar.kleinmann@ecsag.com

1.4 - Emergency telephone number

- Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aerosol 3	Aerosol - Category 3

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : Warning Pictograms : None

Hazard statements

H229 Pressurised container: May burst if heated

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.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
EUH-phrases	: None

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Regulation (EC) No. 648/2004 (Detergents regulation	ion)
2.3 - Other hazards	
PBT-substance.	- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
vPvB-substance.	- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Other hazards which do not result in classification	- Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite.
	- Ingestion causes nausea, weakness and central nervous system effects.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
, , , , , , , , , , , , , , , , , , , ,		> 50 - <= 100	Press. Gas	Not applicable
1-ene	Index No. :			
	EC No.:			

SECTION 4: First aid measures

4.1 - Description of first aid measures

4.1 - Description of first aid measures	
Following inhalation	 Provide fresh air. Medical examination necessary even merely on suspicion of intoxication.
Following skin contact	- When in doubt or if symptoms are observed, get medical advice.
After eye contact	 Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.
After ingestion	 When in doubt or if symptoms are observed, get medical advice.

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

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

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

- Treat symptomatically. Antidotal dispensation.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u> - ABC-powder

- Carbon dioxide (CO2)

- Foam

- Extinguishing powder

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

<u>Hazardous decomposition products</u>
- Carbon dioxide (CO2)
- Carbon monoxide

Hydrogen fluorideCarbonyl difluoride

5.3 - Advice for firefighters

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.
- Provide adequate ventilation.

For emergency responders - No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Ensure waste is collected and contained.

6.3 - Methods and material for containment and cleaning up

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Methods and material for containment	- Soak up inert absorbent and dispose as waste requiring special attention.
Methods and material for cleaning up	 Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up carefully when dry. Clear contaminated areas thoroughly. Clean contaminated articles and floor according to the environmental legislation.
Inappropriate techniques	- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation	- Do not pierce or burn, even after use.
Advices on general occupational hygiene	- Wash hands before breaks and after work.
	- When using do not eat, drink, smoke, sniff.

7.2 - Conditions for safe storage, including any incompatibilities

- Do not store together with: Food and feedingstuffs
- Keep container tightly closed in a cool, well-ventilated place.

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

Trans-1,3,3,3-Tetrafluroprop-1-ene (29118-24-9)	
IOELV TWA ppm (UE)	800 ppm

DNEL/PNEC

Trans-1,3,3,3-Tetrafluroprop-1-ene (29118-24-9)			
Туре	Value	User	Effect
DNEL long-term inhalative	3902 mg/m3	Workers	Systemic
DNEL long-term inhalative	830 mg/m3	Consumers	Systemic
PNEC aquatic, freshwater	0.1 mg/l		

8.2 - Exposure controls

Individual protection measures, such as personal protective equipment

Individual protection measures, such as personal - Tested protective gloves must be worn



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- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Suitable protective clothing: lab coat



- Eye glasses with side protection
- DIN EN 166
- If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Particle characteristics

- Further information: see technical data sheet.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state	gaseous	<u>Appearance</u>	Aerosol
Colour		<u>Odour</u>	characteristic
Odour threshold		No data available	
рН		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		5 bar	
Vapour density		No data available	
Relative density		No data available	
Density		1.17 g/cm3	
Solubility (Water)		0.373 g/l	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents))	No data available	
Log KOC		1.6	
Auto-ignition temperature		368 °C	
Decomposition temperature)	No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

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Particle size	No data available
9.2 - Other information	
VOC content	-
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Frost

10.5 - Incompatible materials

- Alkaline earth metal

10.6 - Hazardous decomposition products

- Carbon dioxide
- Carbon monoxide
- Carbonyl difluoride

SECTION 11: Toxicological information

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

Acute toxicity	 Not classified
ACULE LUXICILY	- INUL CIASSINEU

Toxicity: Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.

Toxicity: Substances

Trans-1,3,3,3-Tetrafluroprop-1-ene (29118-24-9)	
LC50 inhalation (rat)	> 207000 ppmV

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Skin corrosion/irritation	- Not classified		
Serious eye damage/eye irritation	- Not classified		
Respiratory or skin sensitisation	- Not classified		
Germ cell mutagenicity	- Not classified		
Carcinogenicity	- Not classified		
Reproductive toxicity	- Not classified		
STOT-single exposure	- Not classified		
	- data lacking		
STOT-repeated exposure	- Not classified		
Aspiration hazard	- Not classified		
440 44 11 11			

11.2 - Information on other hazards

- This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity: Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity: Substances

Trans-1,3,3,3-Tetrafluroprop-1-ene (29118-24-9)		
EC50 48 hr crustacea	> 160 mg/l	
LC50 96 hr fish ErC50 algae	> 117 mg/l	
NOEC chronic fish	> 170 mg/l	
NOEC chronic algae	> 117 mg/l	
	> 170 mg/l	

⁻ The substance/mixture does not fullfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

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- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	1.6

- No indication of bioaccumulation potential.
- 12.4 Mobility in soil
- No information available.
- 12.5 Results of PBT and vPvB assessment
- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
- 12.6 Endocrine disrupting properties
- 12.7 Other adverse effects
- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods	- Dispose of waste according to applicable legislation.
Sewage disposal	- No information available.
Special precautions for waste treatment	 Waste requires special monitoring. Collect the waste separately. Send to a hazardous waste incinerator facility under observation of official regulations. The waste is to be kept separate from other types of waste until its disposal.
Community or national or regional provisions	- packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 - UN number or ID number

 UN number (ADR)
 : UN1950

 UN number (RID)
 : UN1950

 UN number (ADN)
 : Not applicable

 UN number (IMDG)
 : UN1950

 UN number (IATA)
 : UN1950

14.2 - UN proper shipping name

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UN proper shipping name : AEROSOLS

(ADR)

UN proper shipping name : AEROSOLS

(RID)

UN proper shipping name : AEROSOLS

(IMDG)

UN proper shipping name : AEROSOLS, NON-FLAMMABLE

(IATA)

14.3 - Transport hazard class(es)

Classification: 2.2

ADR/RID Label: Limited Quantity: 2.2 is not applicable.

14.4 - Packing group

Packing group (RID) :
Packing group (IMDG) :
Packing group (IATA) :

14.5 - Environmental hazards

Environmental hazards :
Marine pollutant : -

14.6 - Special precautions for user

ADR Classification code: 5A

ADR Special provisions : 190+327+344+65

ADR Limited quantity (LQ) : 1L
ADR Excepted quantities : E0

ADR Packing instructions

ADR Special packing provisions

ADR Mixed packing provisions

Instructions for portable tanks and bulk containers

Special provisions for portable tanks and bulk containers

ADR tank code

ADR tanks special provisions

Vehicle for tank carriage

ADR Transport category

ADR Tunnel restriction code

ADR Special provisions loading, unloading and handling

Special provisions - Packages

Special provisions - Bulk

Special provisions - Operation

ADR Hazard identification number (Kemler No.)

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RID

Special provisions : 190 327 344

Limited quantity (LQ) : 1L

IMDG

Special provisions : 63 190 277 327 344 381 959

Limited quantity (LQ)

Excepted quantities : E0

Packing instructions

Special packing provisions

IBC instruction(s)

IBC provisions

Instructions for portable tanks and bulk containers

Special provisions for portable tanks and bulk containers

EmS codes

Stowage and handling : F-D, S-U : SW1 SW22

Segregation : SG69

Properties and observations :

IATA

PCA - Excepted quantities : E0

PCA - Limited Quantity - Packing Instructions : Y203

PCA - Limited Quantity - Maximum Net Quantity per Package : 30kg

PCA - Packing Instructions : 203

PCA - Maximum Net Quantity per Package : 75kg

CAO - Packing Instructions : 203

CAO - Maximum Net Quantity per Package : 150kg

Special Provisions : A98 A145 A167 A802

ERG Code : -

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH None

candidates

Substances Annex XIV None
Substances Annex XVII None

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Regulation (EC) No. 648/2004 (Detergents regulation)

15.2 - Chemical Safety Assessment

 $\frac{\hbox{Chemical safety assessment carried}}{\hbox{out for the product}} \ \ \hbox{- No information available}.$

SECTION 16: Other information

SDS versions

	Version	Issue date	Author	Description of the amendments
Ī	1	12/28/2022		

Texts of the regulatory sentences

Aerosol 3	Aerosol - Category 3	
H229	Pressurised container: May burst if heated	
Press. Gas	Gases under pressure	

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