

## Sprayduster 200ml non-flammable

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

#### 1.1 - Product identifier

Trade name/designation: Sprayduster 200ml non-flammable  
Chemical name:  
Product-type: Mixture  
Product code: 723.200  
UFI: R8JJ-U459-020C-DN78

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

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

ECS Cleaning Solutions GmbH  
Wolfener Str. 32-34  
D-12681 Berlin Germany  
Telephone : +49 (0)30 / 36 46 40 36  
gunnar.kleinmann@ecsag.com

ECS AG  
Roosstrasse 53  
CH-8832 Wollerau  
gunnar.kleinmann@ecsag.com  
+41 (0)44 / 787 53 56

#### 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.                                                                 |
| P103      | Read carefully and follow all instructions.                                                    |
| 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

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

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### 2.3 - Other hazards

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

| Chemical name                       | No                                              | %             | Class(es)  | Specific concentration limit |
|-------------------------------------|-------------------------------------------------|---------------|------------|------------------------------|
| Trans-1,3,3,3-Tetrafluoroprop-1-ene | CAS No. : 29118-24-9<br>Index No. :<br>EC No. : | > 50 - <= 100 | Press. Gas | Not applicable               |

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

|                               |                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <u>Following inhalation</u>   | - No special measures are necessary.<br>- Provide fresh air.                                                                    |
| <u>Following skin contact</u> | - When in doubt or if symptoms are observed, get medical advice.                                                                |
| <u>After eye contact</u>      | - Rinse immediately carefully and thoroughly with eye-bath or water.<br>- In case of eye irritation consult an ophthalmologist. |

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

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| <u>Symptoms and effects - Following inhalation</u>   | - No information available. |
| <u>Symptoms and effects - Following skin contact</u> | - No information available. |
| <u>Symptoms and effects - After eye contact</u>      | - No information available. |
| <u>Symptoms and effects - After ingestion</u>        | - No information available. |

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

- Treat symptomatically. Antidotal dispensation.

## SECTION 5: Firefighting measures

### 5.1 - Extinguishing media

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| <u>Suitable extinguishing media</u>   | - ABC-powder<br>- Carbon dioxide (CO2)<br>- Foam<br>- Extinguishing powder |
| <u>Unsuitable extinguishing media</u> | - Full water jet                                                           |

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

|                                                              |                             |
|--------------------------------------------------------------|-----------------------------|
| <u>Special hazards arising from the substance or mixture</u> | - No information available. |
|--------------------------------------------------------------|-----------------------------|

### 5.3 - Advice for firefighters

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- 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

- |                                    |                                                                         |
|------------------------------------|-------------------------------------------------------------------------|
| <u>For non-emergency personnel</u> | - Use personal protection equipment.<br>- Provide adequate ventilation. |
|------------------------------------|-------------------------------------------------------------------------|

- |                                 |                             |
|---------------------------------|-----------------------------|
| <u>For emergency responders</u> | - 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

- |                                             |                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------|
| <u>Methods and material for containment</u> | - Soak up inert absorbent and dispose as waste requiring special attention. |
|---------------------------------------------|-----------------------------------------------------------------------------|

- |                                             |                                                                                                                                                                                                                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Methods and material for cleaning up</u> | - Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).<br>- Take up carefully when dry.<br>- Clear contaminated areas thoroughly.<br>- Clean contaminated articles and floor according to the environmental legislation. |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- |                                 |                             |
|---------------------------------|-----------------------------|
| <u>Inappropriate techniques</u> | - 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

- |                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| <u>Recommendation</u>                          | - No special technical protective measures are necessary. |
| <u>Advices on general occupational hygiene</u> | - No information available.                               |

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

- Do not store together with: Food and feedingstuffs

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

### SECTION 8: Exposure controls/personal protection

#### 8.1 - Control parameters

##### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|                    |         |
|--------------------|---------|
| IOELV TWA ppm (UE) | 800 ppm |
|--------------------|---------|

#### 8.2 - Exposure controls

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### Appropriate engineering controls

- No information available.

### Individual protection measures, such as personal protective equipment

- Tested protective gloves must be worn

- Suitable protective clothing: lab coat



### Environmental exposure controls

- Further information: see technical data sheet.

## SECTION 9: Physical and chemical properties

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

| <u>Physical state</u>         | <u>gaseous</u> | <u>Appearance</u> | <u>Aerosol</u>        |
|-------------------------------|----------------|-------------------|-----------------------|
| <u>Colour</u>                 |                | <u>Odour</u>      | <u>characteristic</u> |
| Odour threshold               |                | No data available |                       |
| pH                            |                | 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               |                | No data available |                       |
| Vapour density                |                | No data available |                       |
| Relative density              |                | No data available |                       |
| Density                       |                | No data available |                       |
| Solubility (Water)            |                | No data available |                       |
| Solubility (Ethanol)          |                | No data available |                       |
| Solubility (Acetone)          |                | No data available |                       |
| Solubility (Organic solvents) |                | No data available |                       |
| Log KOC                       |                | No data available |                       |
| Auto-ignition temperature     |                | No data available |                       |
| Decomposition temperature     |                | No data available |                       |
| Kinematic viscosity           |                | No data available |                       |
| Dynamic viscosity             |                | No data available |                       |

### Particle characteristics

|               |                   |
|---------------|-------------------|
| Particle size | No data available |
|---------------|-------------------|

### 9.2 - Other information

|             |     |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

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|                         |                   |
|-------------------------|-------------------|
| 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

- No information available.

#### 10.5 - Incompatible materials

- No information available.

#### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

### SECTION 11: Toxicological information

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

Acute toxicity - Not classified

#### 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.

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

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- data lacking

STOT-repeated exposure - Not classified

Aspiration hazard - Not classified

11.2 - Information on other hazards

### 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 |

- The substance/mixture does not fulfill 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 |

- No information available.

#### 12.3 - Bioaccumulative potential

|                               |                   |
|-------------------------------|-------------------|
| Bioconcentration factor (BCF) | No data available |
| Log KOC                       | No data available |

- No indication of bioaccumulation potential.

#### 12.4 - Mobility in soil

- No information available.

#### 12.5 - Results of PBT and vPvB assessment

#### 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.

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|                                                     |                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Sewage disposal</u>                              | - No information available.                                                                                                                                                                                                                                                                                               |
| <u>Special precautions for waste treatment</u>      | <ul style="list-style-type: none"><li>- Waste requires special monitoring.</li><li>- Collect the waste separately.</li><li>- Send to a hazardous waste incinerator facility under observation of official regulations.</li><li>- The waste is to be kept separate from other types of waste until its disposal.</li></ul> |
| <u>Community or national or regional provisions</u> | - No information available.                                                                                                                                                                                                                                                                                               |

### SECTION 14: Transport information

#### 14.1 - UN number or ID number

|                         |   |                |
|-------------------------|---|----------------|
| <u>UN number (ADR)</u>  | : | UN1950         |
| <u>UN number (RID)</u>  | : | UN1950         |
| <u>UN number (ADN)</u>  | : | Not applicable |
| <u>UN number (IMDG)</u> | : | UN1950         |
| <u>UN number (IATA)</u> | : | UN1950         |

#### 14.2 - UN proper shipping name

|                                       |   |                         |
|---------------------------------------|---|-------------------------|
| <u>UN proper shipping name (ADR)</u>  | : | AEROSOLS                |
| <u>UN proper shipping name (RID)</u>  | : | AEROSOLS                |
| <u>UN proper shipping name (IMDG)</u> | : | AEROSOLS                |
| <u>UN proper shipping name (IATA)</u> | : | AEROSOLS, NON-FLAMMABLE |

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

|                                       |   |    |
|---------------------------------------|---|----|
| <u>ADR Transport hazard class(es)</u> | : | 2  |
| <u>ADR Classification code:</u>       | : | 5F |
| <u>Pictograms</u>                     |   |    |



|                                         |   |   |
|-----------------------------------------|---|---|
| <u>Transport hazard class(es) (RID)</u> | : | 2 |
| <u>Pictograms</u>                       |   |   |



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Transport hazard class(es) : 2

(IMDG)

Pictograms



Transport hazard class(es) : 2

(IATA)

Pictograms



### 14.4 - Packing group

Packing group :

Packing group (RID) :

Packing group (IMDG) :

Packing group (IATA) :

### 14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

### 14.6 - Special precautions for user

#### ADR

|                                                           |   |                 |
|-----------------------------------------------------------|---|-----------------|
| ADR Classification code:                                  | : | 5F              |
| ADR Special provisions                                    | : | 190+327+344+625 |
| ADR Limited quantity (LQ)                                 | : | 1L              |
| ADR Excepted quantities                                   | : | E0              |
| ADR Packing instructions                                  | : | P207 LP200      |
| ADR Special packing provisions                            | : | PP87 RR6 L2     |
| ADR Mixed packing provisions                              | : | MP9             |
| 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                                    | : | 2               |
| ADR Tunnel restriction code                               | : | D               |
| ADR Special provisions loading, unloading and handling    | : | CV9 CV12        |
| Special provisions - Packages                             | : | V14             |
| Special provisions - Bulk                                 | : |                 |
| Special provisions - Operation                            | : | S2              |
| ADR Hazard identification number (Kemler No.)             | : |                 |

#### RID

Special provisions :

Limited quantity (LQ) :

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|                                                                  |   |                            |
|------------------------------------------------------------------|---|----------------------------|
| <u>Excepted quantities</u>                                       | : |                            |
| <b>IMDG</b>                                                      |   |                            |
| <u>Special provisions</u>                                        | : | 63 190 277 327 344 381 959 |
| <u>Limited quantity (LQ)</u>                                     | : |                            |
| <u>Excepted quantities</u>                                       | : | E0                         |
| <u>Packing instructions</u>                                      | : | P207 LP200                 |
| <u>Special packing provisions</u>                                | : | PP87 L2                    |
| <u>IBC instruction(s)</u>                                        | : |                            |
| <u>IBC provisions</u>                                            | : |                            |
| <u>Instructions for portable tanks and bulk containers</u>       | : |                            |
| <u>Special provisions for portable tanks and bulk containers</u> | : |                            |
| <u>EmS codes</u>                                                 | : | F-D, S-U                   |
| <u>Stowage and handling</u>                                      | : | Category None<br>SW1 SW22  |
| <u>Segregation</u>                                               | : | SG69                       |
| <u>Properties and observations</u>                               | : |                            |
| <b>IATA</b>                                                      |   |                            |
| <u>PCA - Excepted quantities</u>                                 | : | E0                         |
| <u>PCA - Limited Quantity - Packing Instructions</u>             | : | Y203                       |
| <u>PCA - Limited Quantity - Maximum Net Quantity per Package</u> | : | 30kg                       |
| <u>PCA - Packing Instructions</u>                                | : | 203                        |
| <u>PCA - Maximum Net Quantity per Package</u>                    | : | 75kg                       |
| <u>CAO - Packing Instructions</u>                                | : | 203                        |
| <u>CAO - Maximum Net Quantity per Package</u>                    | : | 150kg                      |
| <u>Special Provisions</u>                                        | : | A98 A145 A167 A802         |
| <u>ERG Code</u>                                                  | : | 2L                         |

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

|                                    |      |
|------------------------------------|------|
| <u>Substances REACH candidates</u> | None |
| <u>Substances Annex XIV</u>        | None |
| <u>Substances Annex XVII</u>       | None |
| <u>VOC content</u>                 | 0 %  |

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

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.



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### SECTION 16: Other information

#### SDS versions

| Version | Issue date | Author | Description of the amendments |
|---------|------------|--------|-------------------------------|
| 1       | 11/23/2022 |        |                               |

#### 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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