

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 1 of 8

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

### 1.1. Product identifier

5760 Compressed Air Spray nonflammable 400 ml

Substance name: (E)-1,3,3,3-Tetrafluoropropene  
REACH Registration Number: 01-0000019758-54-  
CAS No: 29118-24-9  
EC No: 471-480-0  
UFI: N1WD-8856-U00C-08U1

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

#### Use of the substance/mixture

Cleaning agent

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

Company name: Kisling Deutschland GmbH  
Street: Salzstraße 15  
Place: D-74676 Niedernhall  
Telephone: +49 7940 5096161  
E-mail: info@kisling.com  
Contact person: Isabel Winter Telephone: +49 7941 92054087  
E-mail: info@kisling.com  
Internet: www.kisling.com

**1.4. Emergency telephone number:** 24 hr. emergency phone number +1 872 5888271 (KAR)  
Medicines & Poisons Info Office +356 2545 6508

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008  
Compressed gas; H280

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

#### Hazard statements

H229 Pressurised container: May burst if heated.

#### Precautionary statements

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.

### 2.3. Other hazards

Can cause frostbite.  
Use only in well-ventilated areas.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 2 of 8

#### Chemical characterization TETRAFLUOROPROPENE

#### Hazardous components

| CAS No     | Chemical name                                 |          |                   | Quantity |
|------------|---|----------|-------------------|----------|
|            | EC No   | Index No | REACH No          |          |
|            | Classification (Regulation (EC) No 1272/2008) |          |                   |          |
| 29118-24-9 | (E)-1,3,3,3-Tetrafluoropropene                |          |                   | 100 %    |
|            | 471-480-0                                     |          | 01-0000019758-54- |          |
|            | Compressed gas; H280                          |          |                   |          |

Full text of H and EUH statements: see section 16.

#### Labelling for contents according to Regulation (EC) No 648/2004

&gt;= 30 % halogenated hydrocarbons.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Never give anything by mouth to an unconscious person or a person with cramps. Take off immediately all contaminated clothing.

##### After inhalation

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

##### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
Contact with vapour causes burns to skin and eyes and contact with liquid causes freezing.

##### After contact with eyes

Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray jet. Sand. alcohol resistant foam

##### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Hydrogen fluoride

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 3 of 8

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not inhale explosion and combustion gases. Heating causes rise in pressure with risk of bursting.

### SECTION 6: Accidental release measures

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

##### General advice

See protective measures under point 7 and 8. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Leave to vapourize. No special measures are necessary.

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

##### Other information

Provide adequate ventilation. Leave to vapourize.

#### 6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Personal protection equipment: see section 8. Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Do not spray on naked flames or any incandescent material. Take precautionary measures against static discharges.

##### Advice on protection against fire and explosion

Fight fire with normal precautions from a reasonable distance. Keep away from sources of ignition - No smoking. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

##### Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. When using do not eat or drink. Wash hands before breaks and after work. Draw up and observe skin protection programme.

##### Further information on handling

When using do not eat, drink or smoke. Wash hands before breaks and after work.

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

##### Requirements for storage rooms and vessels

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Keep container tightly closed in a cool, well-ventilated place.

##### Hints on joint storage

Incompatible materials: Acid. alkali. Peroxides Keep away from combustible material. Keep away from food, drink and animal feedingstuffs.

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

-

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 4 of 8

#### DNEL/DMEL values

| CAS No                   | Name of agent                  |          |                        |
|--------------------------|--------------------------------|----------|------------------------|
| DNEL type                | Exposure route                 | Effect   | Value                  |
| 29118-24-9               | (E)-1,3,3,3-Tetrafluoropropene |          |                        |
| Worker DNEL, long-term   | inhalation                     | systemic | 3902 mg/m <sup>3</sup> |
| Consumer DNEL, long-term | inhalation                     | systemic | 830 mg/m <sup>3</sup>  |

#### PNEC values

| CAS No                             | Name of agent                  |  |
|------------------------------------|--------------------------------|--|
| Environmental compartment          | Value                          |  |
| 29118-24-9                         | (E)-1,3,3,3-Tetrafluoropropene |  |
| Freshwater                         | 0,117 mg/l                     |  |
| Freshwater (intermittent releases) | 1,17 mg/l                      |  |

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear protective gloves.

##### Skin protection

Wear suitable protective clothing. Ventilate affected area.

##### Respiratory protection

Do not breathe aerosol.

##### Environmental exposure controls

When using the product special pollution control devices have to be employed.

### SECTION 9: Physical and chemical properties

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

|                 |            |
|-----------------|------------|
| Physical state: | Aerosol    |
| Colour:         | colourless |
| Odour:          | Ether      |

#### Test method

|   |                        |
|---|------------------------|
| Melting point/freezing point:                             | not applicable         |
| Boiling point or initial boiling point and boiling range: | -19 °C                 |
| Flash point:  | not applicable         |
| pH-Value:   | not applicable         |
| Water solubility:   | 0,373 g/L              |
| Vapour pressure:<br>(at 20 °C)                            | 5000 hPa               |
| Vapour pressure:<br>(at 50 °C)                            | <12000 hPa             |
| Density (at 20 °C):                                       | 1,17 g/cm <sup>3</sup> |

#### 9.2. Other information

##### Information with regard to physical hazard classes

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 5 of 8

Self-ignition temperature

368°C

#### Further Information

Water content &lt;0,3%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Possibility of hazardous reactions

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Thermal decomposition can lead to the escape of irritating gases and vapours.

### 10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Materials to avoid: Alkali metals.

### 10.6. Hazardous decomposition products

Carbon monoxide Hydrogen fluoride

## SECTION 11: Toxicological information

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

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

-

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 6 of 8

| CAS No     | Chemical name                  |               |           |         |                                 |   |
|------------|--------------------------------|---------------|-----------|---------|---------------------------------|---|
|            | Aquatic toxicity               | Dose          | [h]   [d] | Species | Source                          | Method                                    |
| 29118-24-9 | (E)-1,3,3,3-Tetrafluoropropene |               |           |         |                                 |   |
|            | Acute fish toxicity            | LC50<br>mg/l  | > 117     | 96 h    | Cyprinus carpio                 | Study report (2006)<br>OECD Guideline 203 |
|            | Acute algae toxicity           | ErC50<br>mg/l | > 170     | 72 h    | Pseudokirchneriella subcapitata | Study report (2006)<br>OECD Guideline 201 |
|            | Acute crustacea toxicity       | EC50<br>mg/l  | > 160     | 48 h    | Daphnia magna                   | Study report (2006)<br>OECD Guideline 202 |

#### 12.2. Persistence and degradability

-

#### 12.3. Bioaccumulative potential

-

#### Partition coefficient n-octanol/water

| CAS No     | Chemical name                  | Log Pow |
|------------|--------------------------------|---------|
| 29118-24-9 | (E)-1,3,3,3-Tetrafluoropropene | 1,6     |

#### 12.4. Mobility in soil

-

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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

-

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 7 of 8

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.2



Classification code: 5A  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 3  
Tunnel restriction code: E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.2



Classification code: 5A  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.2  
**14.4. Packing group:** -  
Hazard label: 2.2



Special Provisions: 63, 190, 277, 327, 344, 959  
Limited quantity: 1000 mL  
Excepted quantity: E0  
EmS: F-D, S-U

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, non-flammable  
**14.3. Transport hazard class(es):** 2.2  
**14.4. Packing group:** -  
Hazard label: 2.2



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 5760 Compressed Air Spray nonflammable 400 ml

Revision date: 01.02.2023

Product code: 94206

Page 8 of 8

|  |                    |
|--|--------------------|
| Special Provisions:                    | A98 A145 A167 A802 |
| Limited quantity Passenger:            | 30 kg G            |
| Passenger LQ:                          | Y203               |
| Excepted quantity:                     | E0                 |
| IATA-packing instructions - Passenger: | 203                |
| IATA-max. quantity - Passenger:        | 75 kg              |
| IATA-packing instructions - Cargo:     | 203                |
| IATA-max. quantity - Cargo:            | 150 kg             |

## SECTION 15: Regulatory information

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

#### EU regulatory information

2010/75/EU (VOC): 100 % (1170 g/l)

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): - - non-hazardous to water

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

#### Abbreviations and acronyms

Aerosol: Aerosols

Compressed gas: Compressed gas

#### Relevant H and EUH statements (number and full text)

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

#### Identified uses

| No | Short title      | LCS | SU | PC | PROC | ERC | AC | TF | Specification |
|----|------------------|-----|----|----|------|-----|----|----|---------------|
| 1  | Surface modifier | -   | -  | 14 | -    | -   | -  | -  | 3             |

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories