

Safety Data Sheet

according to Regulation (EC) No 1907/2006

5760 Compressed Air Spray nonflammable 400 ml

Revision date: 06.02.2024

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 50961 61
E-mail: technical.support@kisling.com
Contact person: Dr. Hans Götz Telephone: +49 7940 5096 143
E-mail: compliance@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: 06.02.2024

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

>= 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 (CO₂), 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: 06.02.2024

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: 06.02.2024

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 ³
Consumer DNEL, long-term	inhalation	systemic	830 mg/m ³

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: (at 20 °C)	5000 hPa
Vapour pressure: (at 50 °C)	<12000 hPa
Density (at 20 °C):	1,17 g/cm ³

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: 06.02.2024

Product code: 94206

Page 5 of 8

Self-ignition temperature

368°C

Further Information

Water content <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: 06.02.2024

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 mg/l	> 117	96 h	Cyprinus carpio	Study report (2006) OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 170	72 h	Pseudokirchneriella subcapitata	Study report (2006) OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 160	48 h	Daphnia magna	Study report (2006) 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: 06.02.2024

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: 06.02.2024

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