

Safety Data Sheet

according to Regulation (EC) No 1907/2006

5760 Compressed Air Spray nonflammable 400 ml

Revision date: 25.06.2020

Product code: 94206

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

1.1. Product identifier

5760 Compressed Air Spray nonflammable 400 ml

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:	KERONA GmbH	
Street:	Zeilbaumweg 15	
Place:	D-74613 Öhringen	
Telephone:	+49 7941-9205 4080	
e-mail:	mail@kerona.de	
Contact person:	Dr. Hans Goetz	Telephone: +49 170-8548 710
e-mail:	hans.goetz@kerona.de	
Internet:	www.kerona.de	

1.4. Emergency telephone number: Vergiftungs-Informationen-Zentrale Freiburg
+49 761-19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Aerosol: Aerosol 3

Hazard Statements:

Pressurised container: May burst if heated.

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.
P103	Read label before use.
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

Contains refrigerated gas; may cause cryogenic burns or injury.

5 - 10 % by mass of the contents are flammable.

Use only in well-ventilated areas.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Chemical characterization

TETRAFLUOROPROPENE

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
29118-24-9	(E)-1,3,3,3-Tetrafluoropropene			75 - 100 %
	810-135-4			
	Dissolved 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! Move victim out of danger zone. Never give anything by mouth to an unconscious person or a person with cramps. Take off immediately all contaminated clothing.

After inhalation

In all cases of doubt, or when symptoms persist, seek medical advice. Remove casualty to fresh air and keep warm and at rest. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration.

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

Carbon dioxide (CO₂). Extinguishing powder. Water spray jet. Sand. alcohol resistant foam

Unsuitable extinguishing media

Full water jet

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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.

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

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. Wear personal protection equipment. Vapours are heavier than air and will spread at floor level.

6.2. Environmental precautions

Leave to vapourize. No special measures are necessary.

6.3. Methods and material for containment and cleaning up

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.

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

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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.

Protective and hygiene measures

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.

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

Emission into the atmosphere must be prevented. The product shows a high atmospheric retention time and there is a founded suspicion, the O3/O2, which affects the equilibrium in the stratosphere.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	colourless
Odour:	Ether

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: not applicable

Initial boiling point and boiling range: not applicable

Flash point: not applicable

Auto-ignition temperature 368°C

Vapour pressure: 5000 hPa
(at 20 °C)

Vapour pressure: <12000 hPa
(at 50 °C)

Density (at 20 °C): 1,17 g/cm³

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

9.2. Other information

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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: Oxidizing agents. Acid. alkali. Alkali metals. Alkaline earth metal. Metal powder.
Aluminium. Zinc.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide (CO₂). Carbon monoxide Hydrogen fluoride

SECTION 11: Toxicological information**11.1. Information on toxicological effects****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.

Specific effects in experiment on an animal

No data available

Practical experience**Other observations**

May be harmful if swallowed, in contact with skin or if inhaled.

SECTION 12: Ecological information**12.1. Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

No data available

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12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

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

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
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)

<u>14.1. UN number:</u>	UN 1950
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<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2
<u>14.4. Packing group:</u>	-
Hazard label:	2.2
Classification code:	5A
Special Provisions:	190 327 344 625
Limited quantity:	1 L
Excepted quantity:	E0

Marine transport (IMDG)

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS
<u>14.3. Transport hazard class(es):</u>	2.2
<u>14.4. Packing group:</u>	-
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)

<u>14.1. UN number:</u>	UN 1950
<u>14.2. UN proper shipping name:</u>	AEROSOLS, non-flammable
<u>14.3. Transport hazard class(es):</u>	2.2
<u>14.4. Packing group:</u>	-
Hazard label:	2.2
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): 0%

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

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

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15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008

[CLP]

Classification	Classification procedure
Aerosol 3; H229	On basis of test data

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. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Oberflächenbehandlung	-	-	14	-	-	-	-	3

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)