

**Safety data sheet pursuant to ordinance
(EC) No. 453/2010
(EC) No. 1907/2006 (REACH)**

Print date : 10.07.2015

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Revised:03.08.2015

Cimco-Werkzeugfabrik
Carl Jul. Müller GmbH & Co. KG

1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

1.1 Product identifier

Product name PTFE spray Art. No. **151002**
Trade name PTFE spray Art. No. **151002**
CAS No.
EC No.

1.2 Relevant identified use of material or mixture and uses that are not advisable

Recommended
limitations of the
application

Use of the material/mixture Technical aerosols

1.3 Details on the supplier who is making the safety data sheet available

Company Cimco Werkzeugfabrik Carl Jul. Müller GmbH & Co. KG
Hohenhagener Straße 1 - 5
D-42855 Remscheid, Germany
+49 (0) 21913718-01 Fax: +49 (0) 21913718-86

1.4 Emergency number **Emergency CONTACT (24-Hour-Number)**
GBK GmbH +49 (0)6132-84463

2. POSSIBLE HAZARDS

2.1 Classification of the material

- **Classification in accordance with the directive (EC) No. 1272/2008 [CLP/GHS]**

Aerosol 1	H222, H229,
Skin Irrit. 2	H 315
STOT SE 3	H336
Aquatic Chronic 2	H 411

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2.2 Label elements

· **Labelling according to directive (EC) No. 1272/2008 [CLP/GHS]**



GHS02



GHS07



GHS09

Signal word:

Hazard

Hazard information:

H222	Extremely inflammable aerosol.
H229	Pressurised container: could burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness and dizziness.
H411	Toxic for water organisms, with long-term effects.

Safety information:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke.
P211	Do not spray against open flames or other sources of ignition.
P251	Do not puncture or incinerate, even after use.
P261	Avoid breathing in dust/smoke/gas/mist/vapour/aerosol.
P271	Only use outdoors or in well ventilated rooms.
P273	Avoid releasing into the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IN THE EVENT OF SKIN CONTACT: Wash with plenty of water/soap.
P304 + P340	IN THE EVENT OF INHALATION: Move the person into fresh air and ensure they can breathe unrestrictedly.
P312	In the event of feeling unwell, call the POISON CONTROL CENTRE/doctor.
P332 + P312	In the event of skin irritation: Consult a doctor/seek medical attention.
P362	Remove contaminated clothing.
P403 + P235	Store in a cool, well ventilated place.
P405	Keep it locked away.
P410 + P412	Protect against direct sunlight and do not expose to temperatures above 50°C.
P501	Dispose of content/container as problem waste.

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2.3 Other dangers

- The product has a narcotic effect.
- **Results of the PBT and vPvB assessment**
- **PBT:** The materials in the mixture do not meet the PBT/vPvB criteria according to REACH, Appendix XIII.
- **vPvB:** not applicable

3. COMPOSITION / INFORMATION ON COMPONENTS

Constituents	EC No.	CAS No.	Concentrate [% by weight]
Propane-2-ol	200-661-7	67-63-0	2.5 – 5 Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE / H336
Propane	200-827-9	74-98-6	25 – 50 Flam. gas 1, H220 / compress. gas
Isobutane	200-857-2	75-28-5	12.5 – 20 Flam. gas 1, H220 / compress. gas
Butane	203-448-7	106-97-8	12.5 – 20 Flam. gas 1, H220 / compress. gas
Naphtha (crude oil), light hydrogen-treated	921-024-6	64742-49-0	25 – 50 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit.2, H315 STOT SE 3, H336

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4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Remove dirty, saturated clothing immediately.

After inhaling

Move the affected person into the fresh air and place in a resting position.
In the event of complaints, seek medical assistance.

After skin contact

In the event of skin contact, wash off with water.
In the event of long-term skin irritation, consult doctor.

After swallowing

If inadvertently swallowed, drink lots of water and consult a doctor.

After eye contact

In the event of contact with the eyes, rinse thoroughly with lots of water and consult a doctor.

4.2 Important symptoms and effects which are acute or occur with a delay

No information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No information is available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents

Alcohol-resistant foam, extinguishing powder, carbon dioxide, water spray

Unsuitable extinguishing agents

Direct water jet

5.2 Particular risks associated with the material or mixture

Danger of bursting.

In the event of a fire, it is possible that hazardous gases may be formed.

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5.3 Information on fire fighting

Special protective equipment for firefighting:

In the presence of combustion or carbonization gases, any firefighting, rescue and clearing up activities should be undertaken only with heavy-duty respiratory protection.

Further information:

Cool endangered containers with water spray jet.

6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

6.1 Person-related safety precautions, protective equipment and procedures to be followed in emergencies

Ensure sufficient ventilation.
Use personal protective clothing.
Keep ignition sources away.

6.2 Environmental protection measures

If surface water or sewage system are contaminated, inform the responsible authorities.
Do not allow to enter the sewage system or ground water.
Do not allow to enter sewage system / surface water / ground water.

6.3 Methods and material for containment and cleaning

Absorb with suitable liquid-binding materials.
Dispose of the absorbed material in accordance with the regulations.

6.4 References to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protective equipment: see section 8

7. HANDLING AND STORAGE

7.1 Safety measures for safe handling

Information on safe handling

Ensure good room ventilation, extraction at the workplace where necessary.

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General protection measures	Avoid contact with the eyes and skin. Do not inhale gases / vapours / aerosols.
Hygiene measures	Do not smoke, eat, drink or sniff while working. Wash hands before breaks and after finishing work.
Information on fire and explosion protection	Do not spray onto flames or incandescent materials. Pressurised container. Do not force open or incinerate after use. Together with air, vapours can form an explosive mixture. Take measures to protect against electrostatic charges. Avoid exposure to heat.

7.2 Conditions for safe storage taking incompatibilities into consideration

Storage requirements	Keep sealed in original packaging. The local authority regulations for storage of aerosol dispensers are to be observed.
Information on storage with other products	Do not store with foods.
Further information on storage conditions	Protect against heat and direct sunlight. Keep container in a well-ventilated place. The storage temperature must not exceed 50 °C. Keep container in a cool, well-ventilated place.

Storage class

7.3 Specific end use

See section 1.2

8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Peak limit	Note
106-97-8	Butane	8 hours	2400	1000	4(II)	DFG
75-28-5	Isobutane	8 hours	2400	1000	4(II)	DFG
74-98-6	Propane	8 hours	1800	1000	4(II)	DFG
67-63-0	Propane-2-ol	8 hours	500	200	2(II)	DFG, Y

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Biological limit values

CAS No.	Designation	Parameters	BLV	Material examined	Time sample taken
67-63-0	Propane-2-ol	Acetone	25 mg/l	B	b

Additional information

National and local legal provisions must be adhered to.

8.2 Limiting and monitoring exposure

Personal protective equipment

General protective and hygiene measures

The usual regulations for handling chemicals needs to be adhered to.

Do not breathe in dust/smoke/mist. Keep away from food, drink and animal feed. Do not smoke, eat or drink while working. Avoid contact with the eyes and skin. Wash hands before a break and after finishing work.

Respiratory protection

Respiratory protection in the event of insufficient extraction or prolonged exposure.

Hand protection

It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer. The type of chemical protection gloves is to be selected according to the concentration and quantity of hazardous materials at the specific workplace.

Eye protection

Tight fitting safety glasses

Personal protection

Protective workwear

Limiting and monitoring environmental exposure

Ensure good room ventilation, extraction at the workplace where necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Form	aerosol
Colour	white
Odour	characteristic

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Steam pressure	3500 hPa 20 °C
Relative density	0.601 g/cm ³ 20 °C
Melting point / Freezing point	- na -
Explosive properties	LEL: 0.9 Vol. % UEL: 10.9 Vol%
Self-ignition temperature	- na -
Ignition point	- na -
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	230° C.
Solvent content	98.3 %
Solids content	1.1 %

9.2 Other information

No information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information is available.

10.2 Chemical stability

No information is available.

10.3 Possible hazardous reactions

No information is available.

10.4 Conditions to be avoided

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No information is available.

10.5 Incompatible materials

No information is available.

10.6 Dangerous decomposition processes

No decomposition when used as intended.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
LD50 acute oral	5045 mg/kg	Rat		Propane-2-ol
LD50 acute dermal	> 2920 mg/kg	Rat		Naphtha
LC50 acute for inhalation	30 mg/m ³ (4 h)	Rat		Propane-2-ol
Skin irritation	irritant			
Eye irritation	not irritating			
Sensitisation skin	not sensitising			

Practical experience

Irritates the mucous membranes.

General comments

The product is to be handled with the care usual when handling chemicals.
Other hazardous characteristics can not be ruled out.

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12. ENVIRONMENTAL INFORMATION

12.1 Toxicity

	Value/Evaluation	Species	Method	Note
Fish	LC50 4924 mg/l (48 h)			Naphtha
Water fleas (daphnia)	EC50 >10 mg/l (24 h)	Daphnia magna		Naphtha

12.2 Persistence and degradability

No information is available.

12.3 Bio accumulation potential

No information is available.

12.4 Mobility in the soil

No information is available.

12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

12.6. Other harmful effects

Toxic for water organisms, plankton and fish.
Hazardous to drinking water even if only a small quantity escapes into the subsoil.
Do not allow uncontrolled release of the product into the environment.
The product must not enter ground water.

13. INFORMATION ON DISPOSAL

General For correct waste disposal, empty the spray completely.

Product Dispose of in accordance with local authority regulations.

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Waste code 15 01 04 Packaging made of metal.

20 01 13* Solvents.

Waste marked with an asterisk (*) are classed as hazardous waste according to Directive 2008/98/EC on hazardous waste.

Unclean packaging Dispose of in accordance with local authority regulations.

14. INFORMATION ON TRANSPORT

	ADR/RID	IMDG	IATA-DGR
14.1 UN number	1950	1950	1950
14.2 Proper UN shipping name	COMPRESSED GAS PACKAGING	AEROSOLS	Aerosols, inflammable
14.3 Transport hazard class	2.1	2.1	2.1
14.4 Packaging group	-	-	-
14.5 Environmental hazards	no	no	no

14.6 Special preventive measures for the user

Caution: Gases

14.7 Bulk transport according to Appendix II of the MARPOL agreement 73/78 and according to the IBC code

Not applicable

Transport by land ADR/RID

Danger label 2.1

Tunnel restriction code D

Classification code 5F

Transport as "Limited quantity" as per section 3.4 ADR

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15. STATUTORY REGULATIONS

15.1 Regulations on safety, health and environmental protection / specific legal regulations for the material or the mixture

VOC guideline

Note

Daten separat anfragen / Request data separately.

National regulations

Information on employment restrictions

The national laws regarding employment restrictions are to be observed.

Water hazard class 2 VwVwS Appendix 4 Hazardous to water

Technical instructions (TA) air

Class III Figure NK Proportion 98.3 %

Incident ordinance: Incident ordinance, Appendix I: Part 1: Nos. 8 and 9b.

15.2 Chemical safety assessment

A chemical safety assessment for materials in this mixture have not been carried out.

16. OTHER INFORMATION

Recommended use and restrictions

Existing national and local laws regarding chemicals are to be observed.

Nur für den gewerblichen Gebrauch. / For industrial use only.

Further information

The information given is based on our current level of knowledge and serves to describe the product in terms of the safety precautions to be taken. It does not represent an assurance of properties of the product described.

H220 Extremely flammable gas.

H225 Liquid and vapour highly flammable.

H304 Can be fatal if swallowed or if material gets into respiratory tract.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H411 Toxic for water organisms, with long-term effects.