

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

Print date: 10.07.2015

page 1

Revised:10.07.2015

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

## 1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

### 1.1 Product identifier

**Product name** Smoke detector spray 250 ml Art. No. 151126  
**Trade name** Smoke detector spray 250 ml Art. No. 151126  
**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,
Eye Irrit. 2	H319
STOT SE 3	H336

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

Print date: 10.07.2015

page 2

Revised:10.07.2015

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

## 2.2 Label elements

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



**GHS02**



**GHS07**

**Signal word:**

Hazard

**Hazard warnings:**

H222 Extremely inflammable aerosol.  
H229 Pressurised container: could burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness and dizziness.

**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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304 + P340 IN THE EVENT OF INHALATION: Move the person into fresh air and ensure they can breathe unrestrictedly.  
P305 + P351 + P338 IN THE EVENT OF CONTACT WITH THE EYES: Rinse carefully with water. Remove any contact lenses being worn if possible. Continue rinsing.  
P312 In the event of feeling unwell, call the POISON CONTROL CENTRE/doctor.  
P337 + P313 In the event of sustained eye irritation: Consult a doctor/seek medical attention.  
P403 + P235 Store in a cool, well ventilated place.  
P405 Keep it locked away.

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

Print date: 10.07.2015

page 3

Revised:10.07.2015

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

P410 + P412      Protect against direct sunlight and do not expose to temperatures above 50°C.  
P501                Dispose of content/container as problem waste.

**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]
Propan-2-ol	200-661-7	67-63-0	10-19,99 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Propane	200-827-9	74-98-6	10 - 20 Flam. Gas 1, H220 Compressed gas
Isobutane	200-857-2	75-28-5	10 - 20 Flam. Gas 1, H220 Compressed gas
Butane	203-448-7	106-97-8	50-70 Flam. Gas 1, H220 Compressed gas

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

Print date: 10.07.2015

page 4

Revised:10.07.2015

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

#### 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 soap and water.  
In the event of long-term skin irritation, consult doctor.

###### After swallowing

Seek medical attention if symptoms persist.

###### 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

##### 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.

##### 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.

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

Print date: 10.07.2015

page 5

Revised:10.07.2015

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

**Further information:**

Cool endangered containers with water spray jet.

Collect contaminated quenching water separately; it must not enter the sewage system.

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**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**

Do not allow to enter sewage system / surface water / ground water.

**6.3 Methods and material for containment and cleaning**

Allow to evaporate.

**6.4 References to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protective equipment: see section 8

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**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.

General protection measures

Do not inhale gases / vapours / aerosols.  
Ensure sufficient ventilation.

Hygiene measures

Do not eat, drink or smoke while working.  
Wash hands before breaks and after finishing work.

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

Print date: 10.07.2015

page 6

Revised:10.07.2015

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

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.  
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

Further information on storage conditions

Protect against heat and direct sunlight.  
Keep container in a cool, well-ventilated place.

Storage class

2B

**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 <sup>3</sup> ]	[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	Propan-2-ol	8 hours	500	200	2(II)	DFG,Y

**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.

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

Print date: 10.07.2015

page 7

Revised:10.07.2015

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

Respiratory protection	In the event of insufficient ventilation or prolonged exposure, use respiratory protection.
Hand protection	It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.
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	colourless
Odour	characteristic
Steam pressure	4400 hPa 20 °C
Relative density	0.59 g/cm <sup>3</sup> 20 °C
Melting point / Freezing point	- na -
Explosive properties	LEL: 1.5 vol. % UEL: 12 Vol%
Self-ignition temperature	- na -
Ignition point	- na -
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	365° C.

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

Print date: 10.07.2015

page 8

Revised:10.07.2015

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

Solvent content - na -

Solids content - na -

## 9.2 Other information

No information is available.

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available

### 10.2 Chemical stability

No information is available.

### 10.3 Possible hazardous reactions

No information is available.

### 10.4 Conditions to be avoided

Avoid exposure to heat.  
Formation of explosive gas mixtures with air.

### 10.5 Incompatible materials

No information is available.

### 10.6 Dangerous decomposition processes

No decomposition when used as intended.

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## 11. TOXICOLOGICAL INFORMATION



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

Print date: 10.07.2015

page 9

Revised:10.07.2015

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

### 11.1 Information on toxicological effects

	<b>Value/Evaluation</b>	<b>Species</b>	<b>Method</b>	<b>Note</b>
Skin irritation	not irritating			
Eye irritation	irritant			
Sensitisation skin	not sensitising			

#### General comments

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

## 12. ENVIRONMENTAL INFORMATION

### 12.1 Toxicity

No information is available.

### 12.2 Persistence and degradability

No additional information is available.

### 12.3 Bio accumulation potential

No additional information is available.

### 12.4 Mobility in the soil

No additional information is available.

### 12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

### 12.6. Other harmful effects

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

Print date: 10.07.2015

page 10

Revised:10.07.2015

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

Do not allow uncontrolled release of the product into the environment.

### 13. INFORMATION ON DISPOSAL

Recommendation	For correct waste disposal, empty the spray completely.
Product	Dispose of in accordance with local authority regulations.
Waste code	15 01 04 Packaging made of metal 15 01 10* Packaging which contains residue of hazardous substances or is contaminated by hazardous substances.

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

Unclean packaging	Completely empty packaging can be treated as household waste.
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### 14. INFORMATION ON TRANSPORT

	ADR/RID	IMDG	IATA-DGR
<b>14.1 UN number</b>	1950	1950	1950
<b>14.2 Proper UN shipping name</b>	COMPRESSED GAS PACKAGING	AEROSOLS	Aerosols, inflammable
<b>14.3 Transport hazard class</b>	2.1	2.1	2.1
<b>14.4 Packaging group</b>	-	-	-
<b>14.5 Environmental hazards</b>	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

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

Print date: 10.07.2015

page II

Revised:10.07.2015

Cimco-Werkzeugfabrik  
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Not applicable

**Transport by land ADR/RID**

Danger label 2.1  
Tunnel restriction code D  
Classification code 5F

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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 1 VwVwS Appendix 4  
Slightly water hazardous

**Technical instructions (TA) air**

Class III Figure NK Proportion 99.8%

**Incident ordinance:** Incident ordinance, Annex I - No. 8

**15.2 Chemical safety assessment**

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

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**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.

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

Print date: 10.07.2015

page 12

Revised:10.07.2015

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

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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.
H319	Causes serious eye irritation.
H336	May cause drowsiness and dizziness.