

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

Print date: 10.07.2015

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

1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

1.1 Product identifier

Product name Aluminium spray Art. No. **151110**
Trade name Aluminium spray Art. No. **151110**
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
Aquatic Chronic 3 H412

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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.
H412	Hazardous 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.
P264	Wash hands thoroughly after use.
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.
P304 + P340	IN THE EVENT OF INHALATION: Move the person into fresh air and ensure they can breathe unrestrictedly.
P305 + P51 + P388	IN THE EVENT OF CONTACT WITH THE EYES: Rinse carefully with water for several minutes. Remove any contact lenses being worn if possible. Continue rinsing
P312	In the event of feeling unwell, call the POISON CONTROL CENTRE/doctor.
P403 + P235	Store in a cool, well-ventilated place.
P405	Keep it locked away.

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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]
Acetone	200-662-2	67-64-1	10 < 15 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butane	203-448-7	106-97-8	10 < 20 Flam. Gas 1, H220 Compressed gas
n-butyl-acetate	204-658-7	123-86-4	< 10 Flam. Liq. 3, H226 STOT SE 3, H336
Ethyl-acetate	205-500-4	141-78-6	15 < 20 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Xylene	215-535-7	1330-20-7	5 < 10 Flam. Liq. 3, H226 Acute Tox. 4, H332 / Acute Tox. 4, H312 Skin Irrit. 2, H315
Solvent naphtha (crude oil), slightly aromatic [NOTA P]	265-199-0	64742-95-6	2.5 < 10 Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411 STOT SE 3, H336 EUH066
Propane	200-827-9	74-98-6	10 < 20 Flam. Gas 1, H220

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			Compressed gas
Aluminium	231-072-3	7429-90-5	< 10 Flam. Sol. 1, H228
Naphtha (crude oil), heavy hydrogen-treated	265-150-3	64742-48-9	1 < 10 Asp. Tox. 1, H304

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

Do not induce vomiting
Seek medical assistance.

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

Loss of consciousness, vomiting, breathing difficulties, headache, dizziness, skin irritation

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, sand

Unsuitable extinguishing agents

Water

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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.

Further information:

Vapours are heavier than air and spread on the ground.

Cool endangered containers with water spray jet.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Do not apply water, absorb dry, wearing respiratory protection and protective clothing.

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

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7. HANDLING AND STORAGE

7.1 Safety measures for safe handling

Information on safe handling	Extraction in enclosed spaces at floor height. Ensure good room ventilation, extraction at the workplace where necessary.
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	Keep away from ignition sources – Do not smoke. 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	
Further information on storage conditions	Protect against heat and direct sunlight. The storage temperature must not exceed 50 °C. Keep container in a cool, well-ventilated place.
Storage class	2B

7.3 Specific end use

See section 1.2

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8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Peak limit	Note
67-64-1	Acetone	8 hours	1200	500	2(I)	DFG,EU
106-97-8	Butane	8 hours	2400	1000	4(II)	DFG
141-78-6	Ethyl acetate	8 hours	1500	400	2(I)	DFG,Y
74-98-6	Propane	8 hours	1800	1000	4(II)	DFG
1330-20-7	Xylene (all isomers)	8 hours	440	100	2(II)	DFG, EU, Y

Occupational exposure limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Note
1330-20-7	Xylene, all isomers, pure	8 hours Briefly	221 442	50 100	skin
67-64-1	Acetone	8 hours	1210	500	

Biological limit values

CAS No.	Designation	Parameters	BLV	Material examined	Time sample taken
67-64-1	Acetone	Acetone	80 mg/l	U	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

If ventilation is inadequate, wear breathing apparatus.

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

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Limiting and monitoring environmental exposure Sufficient ventilation

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Form	aerosol
Colour	silver-grey
Odour	characteristic
Steam pressure	- na -
Relative density	- na -
Melting point / Freezing point	- na -
Explosive properties	- na -
Self-ignition temperature	- na -
Ignition point	- na -
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	- na -
Solvent content	- na -
Solids content	- na -

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9.2 Other information

No information is available.

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.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
LD50 acute dermal	1100 mg/kg		Conversion value	Xylene
LC50 acute If inhaled	> g mg/l (4h)	Rat		Aluminium
Skin irritation	irritant			

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12.6. Other harmful effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Do not allow uncontrolled release of the product into the environment.
 The product must not enter water systems.

13. INFORMATION ON DISPOSAL

Recommendation	For correct waste disposal, empty the can completely.
Product	Dispose of in accordance with local authority regulations.
Waste code	16 05 04* hazardous materials containing gases in pressurised containers (including halons).

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.
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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

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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.

EUH066	Repeated contact can cause rough or cracked skin.
H220	Extremely inflammable gas.
H225	Liquid and vapour slightly inflammable.
H226	Liquid and vapour inflammable.
H228	Inflammable solid.
H304	Can be fatal if swallowed or if material gets into respiratory tract.
H312	Hazardous to health upon skin contact.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Hazardous to health if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H411	Toxic for water organisms, with long-term effects.