

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

Print date: 02/03/2016

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Revised:21.07.2015

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

1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

1.1 Product identifier

Product name Cleaner and degreaser Art. No. **151150**
Trade name Cleaner and degreaser Art. No. **151150**
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 H315
Eye Irrit. 2 H319
STOT SE 3 H336
Aquatic Chronic 2 H411

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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 warnings:

H222	Extremely inflammable aerosol.
H229	Pressurised container: could burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye 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 as well as other sources of ignition.
	Keep away from ignition sources. 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.
P305 + P351 + P338	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.

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P312	In the event of feeling unwell, call the POISON CONTROL CENTRE/doctor.
P332 + P313	In the event of skin irritation: Consult a doctor/seek medical attention.
P337 + P313	In the event of sustained eye 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.

2.3 Other dangers

This material is flammable and can ignite due to heat, flames or other ignition sources (e.g. static electricity, sparks, mechanical/electrical equipment).

- **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]
Ethanol	200-578-6	64-17-5	2.5 - 10 Flam. Liq. 2, H225
Propane-2-ol	200-661-7	67-63-0	2.5 - 10 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Acetone	200-662-2	67-64-1	10 - 19.99 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Isobutane	200-857-2	75-28-5	2.5 - 10 Flam. Gas 1, H220 Compressed gas
(R)-p-Metntha-1.8-dien	227-813-5	5989-27-5	0.1 - 0.99 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Carbon dioxide	204-696-9	124-38-9	2.5 - 10

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Propane	200-827-9	74-98-6	2.5 - 10 Flam. Gas 1, H220 Compressed gas
Hydrocarbon, C7, n-alkanes, isoalkanes, cyclics	927-510-4	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
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Remove dirty, saturated clothing immediately.

After inhaling

 Ensure there is fresh air.
 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

No information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No information is available.

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5. FIREFIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents Foam, extinguishing powder, carbon dioxide

Unsuitable extinguishing agents Direct water jet

5.2 Particular risks associated with the material or mixture

Formation of explosive/highly flammable vapour-air mixtures is possible.

Danger of bursting.

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

Carbon dioxide (CO₂)

Carbon monoxide (CO)

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.

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 sewage system / surface water / ground water.

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6.3 Methods and material for containment and cleaning

With liquid absorbing material (e.g. sand, diatomite, acid binders, universal binders, sawdust).
Remove in line with 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.
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	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 well-ventilated place. The storage temperature must not exceed 50 °C. Store cool. Recommended storage temperature: room temperature.

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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
67-64-1	Acetone	8 hours	1200	500	2(I)	DFG,EU
106-97-8	Butane	8 hours	2400	1000	4(II)	DFG
64-17-5	Ethanol	8 hours	960	500	2(II)	DFG,Y
75-28-5	Isobutane	8 hours	2400	1000	4(II)	DFG
124-38-9	Carbon dioxide	8 hours	9100	5000	2(II)	DFG,EU
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
5989-27-5	(R)-p-Mentha-1.8-dien (D-limonenes)	8 hours	28	5	4(II)	DFG,H,Sh,Y

Occupational exposure limit values

CAS No.	Designation	Type	[mg/m ³]	[ppm]	Note
124-38-9	Carbon dioxide	8 hours	9000	5000	
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
67-63-0	Propane-2-ol	Acetone	25 mg/l	B	b

Additional information

National and local legal provisions must be adhered to.

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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. Briefly filtration device, Filter AX

Hand protection

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	colourless, clear
Odour	characteristic
Steam pressure	- na -
Relative density	0.699 g/cm ³ 20 °C
Melting point / Freezing point	- na -
Explosive properties	- na -
Self-ignition temperature	- na -
Ignition point	- na -

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Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	> 200° C.
Solvent content	97.4 %
Solids content	- na -

9.2 Other information

No information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reaction known.

10.2 Chemical stability

No information is available.

10.3 Possible hazardous reactions

No known hazardous reactions.

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

Carbon monoxide, carbon dioxide.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
LD50 acute oral	> 5840 mg/kg	Rat		Data refers to the main components.
LD50 acute dermal	> 2920 mg/kg	Rat		Data refers to the main components.
LC50 acute If inhaled	20 mg/l (4 h)	Rat		Propane
Skin irritation	irritant			
Eye irritation	irritant			
Sensitisation skin	none			
Sensitisation of airways	none			

Practical experience

Irritates the mucous membranes.
Irritates the eyes and skin.
Inhalation has a narcotic/intoxicating effect.

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

	Value/Evaluation	Species	Method	Note
Water fleas (daphnia)	EC50 3 mg/l (48 h)			CAS: 64742-49-0

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12.2 Persistence and degradability

Biodegradability: The product has poor biodegradability.

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

Toxic for water organisms, with long-term effects.

Hazardous to drinking water even if only a small quantity escapes into the subsoil, toxic to fish.

The product must not enter the ground water or surface water.

The product must not enter any bodies of water or the sewage system or water treatment plants respectively.

Hazardous for fish and bacteria.

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.
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	AEROSOLS (hydrocarbons, C7, n- alkanes, isoalkanes, cyclics)	AEROSOLS (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	Aerosols, flammable (hydrocarbons, C7, n- alkanes, isoalkenes, cyclics)
14.3 Transport hazard class	2.1	2.1	2.1
14.4 Packaging group	-	-	-
14.5 Environmental hazards	Yes	Yes	Yes

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

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.

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Water hazard class 2 VwVwS Appendix 4
Water-polluting

Technical instructions (TA) air

Class III Section NK Proportion 50 - 100 %

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.

Please pay attention to additional information! - Our safety data sheets have been prepared according to the valid EU guidelines WITHOUT taking into consideration any special national regulations regarding handling hazardous materials and chemicals.

H220	Extremely flammable gas.
H225	Liquid and vapour highly flammable.
H226	Liquid and vapour flammable.
H304	Can be fatal if swallowed or if it enters the respiratory tract.
H315	Causes skin irritation.
H317	Can cause allergic skin reactions.
H319	Causes serious eye irritation.
H336	May cause drowsiness and dizziness.
H400	Extremely toxic for water organisms.
H410	Extremely toxic for water organisms, with long-term effects.
H411	Toxic for water organisms, with long-term effects.