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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
Chalk marker spray Art. No. 212190
Chalk marker spray Art. No. 212190
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 tem material/mixture

temporary coating of surfaces

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]

Flam. Aerosol 1 H222-H229 Eye Irrit. 2 H319 STOT SE 3 H336



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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 - 229Extremely inflammable aerosol. Pressurised container: could burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

Safety information:

EUH066 Repeated contact can cause rough or cracked skin.

EUH018 Can form potentially explosive / inflammable vapour/air mixtures.

P101 If medical attention is required, have packaging or identification label at

hand.

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.

P260 Do not breathe aerosol in.

P262 Avoid this aerosol coming into contact with eyes, skin or clothing.

P271 Only use outdoors or in well ventilated rooms.

P303 + P340 IF INHALED: Move to fresh air and put person into a position which eases

breathing.

P305 + P351 + IN THE EVENT OF CONTACT WITH EYES: Carefully rinse for several P338 minutes with water. Remove any contact lenses potentially being worn if

possible. Continue rinsing.

P403 Store in a well ventilated place.



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P410 + P412 Protect from direct sunlight. Do not expose to temperatures above

50°C/122°F.

P501 Dispose of content / container according to regional regulations.

2.3 Other dangers

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]
Isopropanol	200-661-7	67-63-0	> 30
			Flam. Fl. 2, H225
			Eye irrit. 2, H319
			STOT SE. 3,H336
Butyl glycol	203-905-0	111-76-2	3.5
			Acute Tox.4, H302
			Eye irrit. 2, H319
			STOT once 3
			Acute Tox.4, H312
			Skin irrit. 2, H315
			Acute Tox.4 H332
Propane	200-827-9	74-98-6	5-15
			Flam. Gas 1, H220
			Compressed gas, H280
Butane (<0.1% Butadiene)	203-448-7	106-97-8	15-30
			Flam. Gas 1, H220
			Compressed gas, H280



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4. FIRST AID MEASURES

4.1 Description of first aid measures

General information Move the affected person into fresh air.

After inhaling Fresh air feed.

Seek medical attention in the event of discomfort.

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.

Contact doctor immediately.

After eye contact Immediately rinse eyes under running water with eyelids open

for several minutes. 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 Foam, powder, carbon dioxide, compressed gas packages should

be cooled with a water spray jet in the event of a fire.

Unsuitable extinguishing agents Direct water jet

5.2 Particular risks associated with the material or mixture

No information is available.

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.



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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. Keep unprotected persons away.

6.2 Environmental protection measures

Do not allow to enter the sewage system or ground water. If substances enter bodies of water or sewage system, inform the responsible authorities.

6.3 Methods and material for containment and cleaning

Soak up with liquid absorbing material (e.g. sand, universal binders, sawdust). Ensure sufficient ventilation. Do not rinse away with water or aqueous cleaning agents.

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 Protect against heat and direct sunlight. Ensure ventilation /

extraction at the workplace. Pay attention to emissions limits.

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.

Take measures to protect against electrostatic charges. Protect against direct sunlight and temperatures above 50°C.



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7.2 Conditions for safe storage taking incompatibilities into consideration

Storage requirements Ensure good ventilation. Store in a cool place. The local

authority regulations for storage of aerosol dispensers are to be

observed.

Information on storage with other

products

Further information on storage

conditions Storage class Protect against heat and direct sunlight.

2B

7.3 Specific end use

See section 1.2

8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Limit values

Occupational exposure limit values

CAS No.	Designation	Туре	%	[mg/m³]	[ml/m³]	Note
67-63-0	Isopropanol	Occupational limit value	over 30	500	200	
111-76-2	Butyl glycol	Max. occupational exposure concentration	3.5	98	20	
74-98-6	Propane	Occupational limit value	5-15	1800	1000	
106-97-8	Butane	Occupational limit value	15-30	2400	1000	

Additional information

The lists that were valid during compilation were used as basis.

8.2 Limiting and monitoring exposure

Personal protective equipment

General protective and hygiene

measures

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 Not required where room ventilation is good. Otherwise A/P2



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breathing apparatus or with an independent air supply.

Hand protection Gloves made of nitrile rubber or butyl rubber. Please pay

attention to the data provided by the glove manufacturer regarding permeability and breakthrough times and the

particular conditions of the workplace.

Selection of a suitable glove depends not only on the material

but also on other quality features and varies from one manufacturer to another. As the product constitutes a preparation of different substances, the resistance of glove materials is unpredictable and must therefore be tested before

use.

Eye protection Tight fitting safety glasses.

Personal protection Protective workwear, light protective clothing.

Limiting and monitoring environmental

exposure

Ensure good room ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Form aerosol

Colour see product description

Odour characteristic

Steam pressure at 20°C: 3-4 bar

at 50°C: 10.4 bar

Relative density - na -

Boiling point - na -

Melting point / Freezing point - na -

Explosive properties LEL: 1.5 Vol%

UEL: 13 Vol%

Self-ignition temperature The product is not spontaneously combustible.

Ignition point - na -Flammability - na -



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Oxidizing properties - na -

Solubility in / miscibility with - na -

Ignition temperature 490 °C

Solvent content - na -

Solids content - na -

9.2 Other information

No information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information is available.

10.2 Chemical stability

No decomposition when used as intended.

10.3 Possible hazardous reactions

No known hazardous reactions.

10.4 Conditions to be avoided

Risk of bursting if heated above 50°C.

10.5 Incompatible materials

No information is available.

10.6 Dangerous decomposition processes

No decomposition when used as intended.

11. TOXICOLOGICAL INFORMATION



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11.1 Information on toxicological effects

LD50 acute oral	Value/Evaluation 5280 mg/kg 1746 mg/kg	Species Rat Rat	Method	Note Isopropyl alcohol Butyl glycol
LD50 acute dermal	12800 mg/kg > 2000 mg/kg	Rabbit Guinea pig		Isopropyl alcohol Butyl glycol
LC50 acute If inhaled	72.6 mg/l (4 h)	Rat		Isopropyl alcohol
	658 mg/l (4h) > 20 mg/l (4h)	Rat Rat		Butane Propane
Skin irritation	not irritating			
Eye irritation	irritant			
Sensitisation skin	not sensitising			
Drootical experience				

Practical experience

vapours will have a numbing effect.

12. ENVIRONMENTAL INFORMATION

12.1 Toxicity

Fish	Value/Evaluation LC50 (48h) > 100 mg/l LC50 (96h) >1000 mg/l	Species	Method	Note Isopropyl alcohol Butyl glycol
Water fleas (daphnia)	EC50 (48h) > 100 mg/l	Daphnia magna		Isopropyl alcohol
	EC50 (48h) 1550 mg/l	Daphnia magna		Butyl glycol
Alge	EC50 (72h) >100 mg/l	Scenedesmus subspicatus		Isopropyl alcohol
	EC50 (72h) 1840 mg/l	Pseudokirchneriella subcapitata		Butyl glycol



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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.

Other ecological information:

General information Water hazard class 1 (self-categorisation): slightly hazardous to

water.

Do not allow to enter ground water, bodies of water or the

sewage system undiluted or in large quantities.

12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

12.6. Other harmful effects

No information is available.

13. INFORMATION ON DISPOSAL

Recommendation Must not be disposed of together with domestic waste. Do not

allow to enter the sewage system.

Product Dispose of in accordance with local authority regulations.

Waste code 08 01 11 Paint and lacquer waste which contains organic

solvents or other hazardous materials. 15 01 04 Packaging made of metal.

15 01 11 Packaging according to official regulations.

Unclean packaging Dispose of in accordance with local authority regulations.

14. INFORMATION ON TRANSPORT



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	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

15. STATUTORY REGULATIONS

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

National regulations

Classification in accordance with Industrial Safety Ordinance (BetrSichV): -

Water pollution class 1 Self-classification

slightly water hazardous

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.



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16. OTHER INFORMATION

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 highly inflammable.
H226	Liquid and vapour inflammable.
H280	Contains gas under pressure, could explode if heated.
H302	Hazardous to health if swallowed.
H312	Hazardous to health upon skin contact.
H319	Causes serious eye irritation.
H332	Hazardous to health if inhaled.
H336	May cause drowsiness and dizziness.