



BE SURE. BUILD SURE.

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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.10.2021

Version number 6

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### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name** MC-Cleaner G
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture** Paint remover
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de  
  
MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533
- **Informing department:** msds@mc-bauchemie.de
- **Emergency telephone number:** Tel.: +49 / (0)700 24112112 (MCR)  
Tel.: +48612864565

### 2 Hazards identification

- **Classification of the substance or mixture**

Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.
- **Label elements**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02 GHS07
- **Signal word** Warning
- **Hazard statements** Flammable liquid and vapour.  
Causes skin irritation.  
May cause respiratory irritation. May cause drowsiness or dizziness.  
Harmful to aquatic life with long lasting effects.

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· **Precautionary statements**

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Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Store in a well-ventilated place. Keep container tightly closed.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture consisting of the following components.

· **Dangerous components:**

8028-48-6	Orange juice oil	≥10-<25%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Acute Tox. 5, H303; Acute Tox. 5, H313	
64742-95-6	Solvent naphtha	≥20-<25%
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	
67-68-5	dimethyl sulfoxide	<25%
108-65-6	2-methoxy-1-methylethyl acetate	<10%
	Flam. Liq. 3, H226; Acute Tox. 5, H313	
112945-52-5	Siliciumdioxid,	<10%
	Acute Tox. 5, H313	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

· **Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.

· **After inhalation**

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

In case of persistent symptoms consult doctor.

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- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water.  
Water with a full water jet.
- **Special hazards arising from the substance or mixture** Formation of poisonous gases during heating or in fires.
- **Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Put on breathing apparatus.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Inform respective authorities in case product reaches water or sewage system.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **Reference to other sections** See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep breathing equipment ready.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 3
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

#### · **Components with critical values that require monitoring at the workplace:**

##### **67-68-5 dimethyl sulfoxide**

WEEL (USA)	Long-term value: 250 ppm
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##### **108-65-6 2-methoxy-1-methylethyl acetate**

WEEL (USA)	Long-term value: 50 ppm
IOELV (European Union)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin
WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk

#### · **DNELs**

##### **8028-48-6 Orange juice oil**

Oral	DNEL	4.44 mg/kg bw/Tag (ArL)
Dermal	DNEL	8.89 mg/kg bw/day (ArL)
Inhalative	DNEL	31.1 mg/m <sup>3</sup> (ArL)

##### **67-68-5 dimethyl sulfoxide**

Dermal	DNEL	200 mg/kg bw/day (ArL)
Inhalative	DNEL	394 mg/m <sup>3</sup> (ArL)

##### **108-65-6 2-methoxy-1-methylethyl acetate**

Dermal	DNEL	153.5 mg/kg bw/day (ArL)
Inhalative	DNEL	275 mg/m <sup>3</sup> (ArL)

##### **112945-52-5 Siliciumdioxid,**

Inhalative	DNEL	4 mg/m <sup>3</sup> (ArL)
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· **PNECs**

**67-68-5 dimethyl sulfoxide**

PNEC	1.7 mg/l (Mew)
	17 mg/l (Suw)
PNEC	3.02 mg/kg dwt (Bod)
	13.4 mg/kg dwt (Sediment)

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC	0.635 mg/l (Fresh water)
	100 mg/l (Kla)
	0.0635 mg/l (Mew)
PNEC	0.29 mg/kg dwt (Bod)
	0.329 mg/kg dwt (Marine water sediment)
	3.29 mg/kg dwt (Fresh water sediment)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

· **Breathing equipment:**

Filter AX.  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **Protection of hands:**

Protective gloves.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

Nitrile rubber, NBR  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Breakthrough time: > = 60 min

· **Eye protection:**

Safety glasses  
Tightly sealed safety glasses.

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· **Body protection:** Protective work clothing.

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### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Colourless
Smell:	Characteristic

· **Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	155 °C

Flash point:	47 °C
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Ignition temperature:	270 °C
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Self-inflammability:	Product is not selfigniting.
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Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
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· **Critical values for explosion:**

Lower:	0.7 Vol %
Upper:	9.5 Vol %

Steam pressure at 20 °C:	0.3 hPa
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Density at 20 °C	0.98 g/cm <sup>3</sup>
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· **Solubility in / Miscibility with Water:**

Not miscible or difficult to mix

· **Viscosity:**

dynamic at 20 °C:	10,000 mPas
kinematic:	Not determined.

Other information	No further relevant information available.
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### 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions**

No dangerous reactions known

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

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**· Hazardous decomposition products:**

No dangerous decomposition products known

### 11 Toxicological information

**· Information on toxicological effects**  
**· Acute toxicity**

**· LD/LC50 values that are relevant for classification:**

**8028-48-6 Orange juice oil**

Oral	LD50	>4400 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**67-68-5 dimethyl sulfoxide**

Oral	LD50	28300 mg/kg (rat)
Dermal	LD50	40000 mg/kg (rat)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	LD50	8500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

**112945-52-5 Siliciumdioxid,**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

**· Primary irritant effect:**

**· Skin corrosion/irritation** Irritant for skin and mucous membranes.

**· Serious eye damage/irritation** No irritant effect.

**· Respiratory or skin sensitisation** No sensitizing effect known.

**· Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological information

**· Toxicity**

**· Aquatic toxicity:**

**67-68-5 dimethyl sulfoxide**

	IC50	>25000 mg/l (Danio rerio)
	EC50/72h	17000 mg/l (Pseudokirchneriella subcapitata)
	EC50	10-100 mg/l (BEL)
	EC50/48h	24600 mg/l (Daphnia magna)

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### 108-65-6 2-methoxy-1-methylethyl acetate

LC50/96h	134 mg/l (Oncorhynchus mykiss) 161 mg/l (Pimephales promelas)
EC50	>1000 mg/l (BEL)
EC50/48h	>500 mg/l (Daphnia magna)
NOEC	47.5 mg/l (Ory)
EC50/3d	>1000 mg/l (Selenastrum capricornutum)

### 112945-52-5 Siliciumdioxid,

Sensitisation	EL50	10000 mg/l (Daphnien)
	EC50/24h	>1000 mg/l (Daphnia magna)
	LC50/96h	>10000 mg/l (Danio rerio) >10000 mg/l (Brachydanio rerio)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** Toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.  
Danger to drinking water if even extremely small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1993

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<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>		FLAMMABLE LIQUID, N.O.S. (Solvent naphtha, Orange juice oil)
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>		3 (F1) Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>		3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>		III
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>		Yes
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>		Warning: Flammable liquids. 30 F-E, S-E A
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b></li> </ul>		Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>		
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>		3 D/E
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>		UN 1993 FLAMMABLE LIQUID, N.O.S. (SOLVENT NAPHTHA, ORANGE JUICE OIL), 3, III

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### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing data specification sheet:** Environment protection department.
- **Contact:**
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Acute Tox. 5: Acute toxicity – Category 5
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - Asp. Tox. 1: Aspiration hazard – Category 1
  - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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