



**1 Identification of the substance / preparation and of the company****MetCoat****Article number: 20-8190**

<b>Use:</b>	Protecting lacquer
<b>Identified use:</b>	none
<b>Method of operation:</b>	See product information.
<b>Company:</b>	Buehler GmbH In der Steele 2 D-40599 Düsseldorf / GERMANY Phone: 0800 707 6273 Fax: 0800 707 6274 Homepage: www.buehler-met.de/en/ E-mail: sales@buehler.co.uk
<b>Emergency phone:</b>	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
<b>Responsible:</b>	Schroeder@chemiebuero.de

**2 Hazards identification**

<b>Physico-chemical hazards:</b>	See chapter 10.
<b>Environmental hazards:</b>	The product/the substance has the Water Hazard Class 2.
<b>Other hazards:</b>	none
<b>Hazard symbols:</b>	 
<b>R-phrases:</b>	Extremely flammable Harmful
	R 12: Extremely flammable.
	R 38: Irritating to skin.
	R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
	R 63: Possible risk of harm to the unborn child.
	R 67: Vapours may cause drowsiness and dizziness.

**3 Composition / Information on ingredients**

Range [%]	Substance
20 - < 50	Toluene CAS: 108-88-3, EINECS/ELINCS: 203-625-9 EU-INDEX: 601-021-00-3 ECB-Nr.: GHS/CLP: Flam. Liq. 2, Repr. 2, Asp. Tox 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, H225, H361, H304, H373, H315, H336 EEC: F-Xn, R11-38-48/20-63-65-67
25 - < 40	1,1,1,2-Tetrafluoro ethane CAS: 811-97-2, EINECS/ELINCS: 212-377-0 EU-INDEX: ECB-Nr.: GHS/CLP: - EEC:
1 - < 12,5	Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7 EU-INDEX: 601-022-00-9 ECB-Nr.: GHS/CLP: Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, H226, H332, H312, H315 EEC: Xn, R10-20/21-38
1 - < 5	Ethylbenzene CAS: 100-41-4, EINECS/ELINCS: 202-849-4 EU-INDEX: 601-023-00-4 ECB-Nr.: GHS/CLP: Flam. Liq. 2, Acute Tox. 4, H225, H332 EEC: F-Xn, R11-20

**Comment on component parts:** Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.  
For the wording of the listed risk phrases refer to section 16.



#### 4 First aid measures

<b>General information:</b>	Change soaked clothing.
<b>Inhalation:</b>	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
<b>Skin contact:</b>	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
<b>Ingestion:</b>	not applicable
<b>Advice to doctor:</b>	Treat symptomatically.

#### 5 Fire-fighting measures

<b>Suitable extinguishing media:</b>	Dry powder. Water spray jet. Foam. Carbon dioxide.
<b>Extinguishing media that must not be used:</b>	Full water jet.
<b>Special exposure hazards arising from the substance or preparation itself or combustion products:</b>	Unknown risk of formation of toxic pyrolysis products.  Bursting aerosols can be forcibly projected from a fire.
<b>Special protective equipment for firefighters:</b>	Use self-contained breathing apparatus.
<b>Additional information:</b>	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. Cool containers at risk with water spray jet.

#### 6 Accidental release measures

<b>Personal precautions:</b>	Keep away from all sources of ignition. Ensure adequate ventilation.
<b>Environmental precautions:</b>	not applicable
<b>Methods for cleaning up:</b>	Take up mechanically. Take up residues with absorbent material (e.g. sand). Dispose of absorbed material in accordance within the regulations.

#### 7 Handling and storage

<b>Advice on safe handling:</b>	Use solvent-resistant equipment. Use only in well-ventilated areas.
<b>Advice on protection against fire and explosion:</b>	Vapours can form an explosive mixture with air.  Keep away from all sources of ignition - Refrain from smoking.
<b>Requirements for storage rooms and vessels:</b>	Provide solvent-resistant and impermeable floor.
<b>Advice on storage compatibility:</b>	Do not store together with oxidizing agents.
<b>Further information on storage conditions:</b>	Keep container in a well-ventilated place. Protect from heat/overheating.

## 8 Exposure controls / personal protection

**Additional advice on system design:** Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored: (GB)**

Range [%]	Substance / WEL: Workplace exposure limit
25 - < 40	1,1,1,2-Tetrafluoro ethane / 1000 ppm, 4240 mg/m <sup>3</sup> , -
20 - < 50	Toluene / 50 ppm, 191 mg/m <sup>3</sup> , Sk
1 - < 5	Ethylbenzene / 100 ppm, 441 mg/m <sup>3</sup> , Sk
1 - < 12,5	Xylene, mixture of isomers / 50 ppm, 220 mg/m <sup>3</sup> , SK; BMGV

**Respiratory protection:** Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, combination filter A-P2.

**Hand protection:**

Butyl rubber, >120 min (EN 374).

The details concerned are recommendations. Please contact the glove supplier for further information.

**Eye protection:**

Safety glasses.

**Skin protection:**

Light protective clothing of plastic material.

**General protective measures:**

Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

**Hygiene measures:**

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Use barrier skin cream.

**Delimitation and monitoring of the environmental exposition:**

not determined

## 9 Physical and chemical properties

<b>Form:</b>	aerosol
<b>Color:</b>	clear
<b>Odor:</b>	characteristic
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	not applicable
<b>Flash point [°C]:</b>	not applicable
<b>Flammability [°C]:</b>	not applicable
<b>Lower explosion limit:</b>	1,1 Vol.%
<b>Upper explosion limit:</b>	7,0 Vol.%
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	not determined
<b>Density [g/ml]:</b>	0,96 (20°C / 68,0°F)
<b>Bulk density [kg/m<sup>3</sup>]:</b>	not applicable
<b>Solubility in water:</b>	insoluble
<b>Partition coefficient [n-octanol/water]:</b>	not determined
<b>Viscosity:</b>	not applicable
<b>Relative vapour density determined in air:</b>	not applicable
<b>Evaporation speed:</b>	not applicable
<b>Melting point [°C]:</b>	not applicable
<b>Autoignition temperature [°C]:</b>	not applicable
<b>Decomposition temperature:</b>	not applicable



## 10 Stability and reactivity

<b>Hazardous reactions:</b>	Risk of bursting. Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Reactions with strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Flammable gases/vapours.

## 11 Toxicological information

<b>Acute oral toxicity:</b>	not determined
<b>Acute dermal toxicity:</b>	not determined
<b>Acute inhalational toxicity:</b>	not determined
<b>Irritant effect on eye:</b>	not determined
<b>Irritant effect on skin:</b>	not determined
<b>Sensitization:</b>	not determined
<b>Subacute toxicity:</b>	not determined
<b>Chronic toxicity:</b>	not determined
<b>Mutagenicity:</b>	not determined
<b>Reproduction toxicity:</b>	not determined
<b>Carcinogenicity:</b>	not determined
<b>Experiences made in practice:</b>	none
<b>General remarks:</b>	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.

## 12 Ecological information




<b>Fish toxicity:</b>	not determined
<b>Daphnia toxicity:</b>	not determined
<b>Behaviour in environment compartments:</b>	not determined
<b>Behaviour in sewage plant:</b>	not determined
<b>Bacteria toxicity:</b>	not determined
<b>Biological degradability:</b>	not determined
<b>COD:</b>	not determined
<b>BOD 5:</b>	not determined
<b>AOX-advice:</b>	not applicable
<b>2006/11/EC:</b>	yes
<b>General information:</b>	No classification on the basis of the calculation procedure of the preparation directive.

## 13 Disposal considerations



<b>Product:</b>	Coordinate disposal with the authorities if necessary.
<b>Contaminated packaging:</b>	Uncontaminated packaging may be taken for recycling.
<b>Waste no. (recommended):</b>	160504* gases in pressure containers (including halons) containing dangerous substances



## 14 Transport information

<b>Classification according to ADR:</b>	UN 1950 AEROSOLS 2.1
- Classification Code:	5F
- Label:	
- ADR LQ	LQ2: 1 I
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 2 (D)
<b>Classification according to IMDG:</b>	UN 1950 Aerosols 2.1 -
- EMS	F-D, S-U
- Label:	
- IMDG LQ	1 I
<b>Classification according to IATA:</b>	UN 1950 Aerosols, flammable 2.1
- Label:	

## 15 Regulatory information

<b>Exposure scenario:</b>	not determined
<b>Chemical safety report:</b>	not determined
<b>Labelling:</b>	The product is classified and labelled in accordance within EC-directives.
<b>Hazard symbols:</b>	 
	Extremely flammable                      Harmful
<b>Contains:</b>	Toluene
<b>R-phrases:</b>	<p>R 12: Extremely flammable.</p> <p>R 38: Irritating to skin.</p> <p>R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.</p> <p>R 63: Possible risk of harm to the unborn child.</p> <p>R 67: Vapours may cause drowsiness and dizziness.</p>
<b>S-phrases:</b>	<p>S 23.4: Do not breathe spray.</p> <p>S 51: Use only in well-ventilated areas.</p> <p>S 36/37: Wear suitable protective clothing and gloves.</p>
<b>Special labelling:</b>	<p>Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.</p> <p>Do not pierce or burn, even after use.</p> <p>Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.</p> <p>Keep out of the reach of children.</p>
<b>EEC-REGULATIONS:</b>	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG
<b>TRANSPORT-REGULATIONS:</b>	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
<b>Authorisation, TITEL VII:</b>	not applicable
<b>Restrictions, TITEL VIII:</b>	not applicable

**16 Other informations****R-phrases (Chapter 03):**

R 11: Highly flammable.  
R 20: Harmful by inhalation.  
R 38: Irritating to skin.  
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.  
R 63: Possible risk of harm to the unborn child.  
R 65: Harmful - may cause lung damage if swallowed.  
R 67: Vapours may cause drowsiness and dizziness.  
R 10: Flammable.  
R 20/21: Harmful by inhalation and in contact with skin.

**Hazard statements (Chapter 03):**

H225 Highly flammable liquid and vapour.  
H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.

**Observe employment restrictions for people:**

yes

**VOC (1999/13/CE):**

50%

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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