



### 1 Identification of the substance / preparation and of the company

#### ReleaseAgent

#### Article number: 20-8185-xxx

<b>Use:</b>	Release agent for molds
<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>Other hazards:</b>	none
<b>Hazard symbols:</b>	



Harmful



Highly flammable



Dangerous for the environment

<b>R-phrases:</b>	R 11: Highly flammable. R 38: Irritating to skin. R 65: Harmful - may cause lung damage if swallowed. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 67: Vapours may cause drowsiness and dizziness.
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### 3 Composition / Information on ingredients

Range [%]	Substance
1 - < 5	Silicic acid, sodium salt, reaction products with chlorotrimethylsilane and iso-Pr alc. Registration: CAS: 68988-56-7, EINECS/ELINCS: 273-530-5, EU-INDEX: , ECBnr: GHS/CLP: EEC: Xn, R10-20-36/37
0,1 - < 2,5	Stoddard solvent Registration: CAS: 8052-41-3, EINECS/ELINCS: 232-489-3, EU-INDEX: 649-345-00-4, ECBnr: GHS/CLP: EEC: N-Xn, R10-38-51/53-65-67
80 - < 100	Naphtha (petroleum), light alkylate Registration: CAS: 64741-66-8, EINECS/ELINCS: 265-068-8, EU-INDEX: 649-276-00-X, ECBnr: GHS/CLP: EEC: N-Xn-F, R11-38-51/53-65-67

**Comment on component parts:** For the wording of the listed risk phrases refer to section 16.

**Substances of Very High Concern - SVHC:** The product contains no substance which is named in the list SVHC (Candidate List of Substances of Very High Concern for authorization).

**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>	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.
<b>Advice to doctor:</b>	If swallowed or in the event of vomiting, risk of product entering the lungs.

**5 Fire-fighting measures**

<b>Suitable extinguishing media:</b>	Water spray jet. Dry powder. Carbon dioxide. Foam.
<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.
<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 with 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. High risk of slipping due to leakage/spillage of product.
<b>Environmental precautions:</b>	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
<b>Methods for cleaning up:</b>	Take up with absorbent material (e.g. sand). Dispose of absorbed material in accordance with the regulations.

**7 Handling and storage**

<b>Advice on safe handling:</b>	Provide good room ventilation even at ground level (vapours are heavier than air).
<b>Advice on protection against fire and explosion:</b>	Keep away from all sources of ignition - Refrain from smoking.  Vapours can form an explosive mixture with air. Ignitable mixtures can be formed in the empty container.
<b>Requirements for storage rooms and vessels:</b>	Keep only in original container.  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 tightly closed. 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
80 - < 100	Naphtha (petroleum), light alkylate / -ppm, 1200mg/m <sup>3</sup> , -
0,1 - < 2,5	Stoddard solvent / -ppm, 1200mg/m <sup>3</sup> , -
0,1 - < 2,5	Stoddard solvent / -ppm, 1200mg/m <sup>3</sup> , -

**Respiratory protection:** Breathing apparatus in the event of high concentrations.  
Short term: filter apparatus, filter A.

**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:** Solvent-resistant protective clothing.

**General protective measures:** Avoid contact with eyes and skin.

Do not inhale vapours.

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>	liquid
<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>	95-125
<b>Flash point [°C]:</b>	-6
<b>Flammability [°C]:</b>	not determined
<b>Lower explosion limit:</b>	1,5 Vol. %
<b>Upper explosion limit:</b>	11,6 Vol. %
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	8,4 (20°C)
<b>Density [g/ml]:</b>	0,72
<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>	< 7mm <sup>2</sup> /s 40°C
<b>Relative vapour density determined in air:</b>	not determined
<b>Evaporation speed:</b>	< 1
<b>Melting point [°C]:</b>	not determined
<b>Autoignition temperature [°C]:</b>	not determined
<b>Decomposition temperature:</b>	not applicable

**10 Stability and reactivity**

<b>Hazardous reactions:</b>	Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Reactions with strong oxidizing agents. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.
<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>	The product contains organically bound halogen in accordance with the formulation.
<b>2006/11/EC:</b>	yes
<b>General information:</b>	The product was classified on the basis of the calculation procedure of the preparation directive.




**13 Disposal considerations**

<b>Product:</b>	Dispose of as hazardous waste.
<b>Contaminated packaging:</b>	Disposal in an incineration plant in accordance with the regulations of the local authorities. Uncontaminated packaging may be taken for recycling.
<b>Waste no. (recommended):</b>	Packaging that cannot be cleaned should be disposed of as for product. 070104*

**14 Transport information**

<b>Classification according to ADR:</b>	UN 1268 Petroleum distillates, n.o.s. 3 (N), II
- Classification Code:	F1
- ADR LQ	LQ4 3I
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 2 (D/E)
- Label:	
<b>Classification according to IMDG:</b>	UN 1268 Petroleum distillates, n.o.s. (Naphtha (petroleum), light alkylate) 3 II MARINE POLLUTANT
- EMS	F-E, S-E
- IMDG LQ:	LQ: 1 I
- Label:	
<b>Classification according to IATA:</b>	UN 1268 Petroleum distillates, n.o.s. 3 II
- Label:	

**15 Regulatory information**

<b>Exposure scenario:</b>	not applicable
<b>Chemical safety report:</b>	not applicable
<b>Labelling:</b>	The product is classified and labelled in accordance within EC-directives.
<b>Hazard symbols:</b>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Harmful</p> </div> <div style="text-align: center;">  <p>Highly flammable</p> </div> </div> <div style="margin-top: 10px;">  <p>Dangerous for the environment</p> </div>
<b>Contains:</b>	Naphtha (petroleum), light alkylate
<b>R-phrases:</b>	<p>R 11: Highly flammable.</p> <p>R 38: Irritating to skin.</p> <p>R 65: Harmful - may cause lung damage if swallowed.</p> <p>R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R 67: Vapours may cause drowsiness and dizziness.</p>
<b>S-phrases:</b>	<p>S 9: Keep container in a well-ventilated place.</p> <p>S 16: Keep away from sources of ignition - No smoking.</p> <p>S 23.3: Do not breathe vapour.</p> <p>S 24: Avoid contact with skin.</p> <p>S 51: Use only in well-ventilated areas.</p> <p>S 62: If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.</p>
<b>Special labelling:</b>	none
<b>Authorisation, TITEL VII:</b>	not applicable
<b>Restrictions, TITEL VIII:</b>	not applicable
<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

**16 Other informations**

<b>R-phrases (Chapter 03):</b>	<p>R 10: Flammable.</p> <p>R 67: Vapours may cause drowsiness and dizziness.</p> <p>R 11: Highly flammable.</p> <p>R 20: Harmful by inhalation.</p> <p>R 36/37: Irritating to eyes and respiratory system.</p> <p>R 38: Irritating to skin.</p> <p>R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R 65: Harmful - may cause lung damage if swallowed.</p>
<b>Observe employment restrictions for people:</b>	yes
<b>VOC (1999/13/CE):</b>	~93%

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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