

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

**Product:** Topol 1 - Topol 2 - Topol 3  
**Article number:** 151101\_A, 151102, 151102-A, 151103  
**Registration number:** not applicable  
**Use:** See product information  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** 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  
**Emergency phone:** 0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100  
**Responsible:** Simonavicius@chemiebuero.de

**2 Hazards identification**

**Physico-chemical hazards:** No particular hazards known.  
**Human health dangers:** No particular hazards known.  
**Environmental hazards:** The product/the substance has the Water Hazard Class 1.  
**Other hazards:** none  
**Hazard symbols:** none  
  
**R-phrases:** none

**3 Composition / Information on ingredients**

15 - 30%	Propane-1,2-diol
CAS: 57-55-6, EINECS/ELINCS: 200-338-0, EU-INDEX: , ECBnr:	
1 - < 30%	Aluminium oxide
CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, EU-INDEX: , ECBnr:	

**Comment on component parts:** not applicable

**4 First aid measures**

**General information:** none  
**Inhalation:** not applicable  
**Skin contact:** When in contact with the skin, clean with soap and water.  
 Consult a doctor if skin irritation persists.  
**Eye contact:** In case of contact with eyes rinse thoroughly with water.  
 In the event of symptoms seek for medical treatment.  
**Ingestion:** In the event of symptoms seek for medical treatment.  
 Rinse out mouth and give plenty of water to drink.  
**Advice to doctor:** Treat symptomatically.

**5 Fire-fighting measures**

**Suitable extinguishing media:** Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.  
**Extinguishing media that must not be used:**  
 Full water jet.  
**Special exposure hazards arising from the substance or preparation itself or combustion products:**  
 Unknown risk of formation of toxic pyrolysis products.  
**Special protective equipment for firefighters:**  
 Use self-contained breathing apparatus.  
**Additional information:** Fire residues must be disposed of in accordance within the local regulations.

**6 Accidental release measures**

- Personal precautions:** High risk of slipping due to leakage/spillage of product.
- Environmental precautions:** Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.
- Methods for cleaning up:** Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

**7 Handling and storage**

- Advice on safe handling:** No special measures necessary if used correctly.
- Advice on protection against fire and explosion:**  
No special measures necessary.
- Requirements for storage rooms and vessels:**  
Keep only in original container.
- Advice on storage compatibility:** No special measures necessary.
- Further information on storage conditions:**  
No special measures necessary.

**8 Exposure controls / personal protection****Additional advice on system design:**

Ensure adequate ventilation on workstation.

**Ingredients with occupational exposure limits to be monitored:**

1 - < 30%	Aluminium oxide, 10mg/m <sup>3</sup> *, General remarks: (inhalable dust)
15 - 30%	Propane-1,2-diol, 150ppm*, 474mg/m <sup>3</sup> *, General remarks: vapour and particulates

**\* WEL: Workplace exposure limit**

- Respiratory protection:** not applicable
- Hand protection:** Butyl rubber, >120 min (EN 374).
- Eye protection:** Safety glasses.
- Skin protection:** not applicable
- General protective measures:** Avoid contact with eyes.
- Hygiene measures:** Wash hands before breaks and after work.  
Use barrier skin cream.

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

none

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**9 Physical and chemical properties**

<b>Form:</b>	suspension
<b>Color:</b>	white
<b>Odor:</b>	odourless
<b>pH-value:</b>	neutral
<b>pH-value [1%]:</b>	neutral
<b>Boiling point [°C]:</b>	not determinated
<b>Flash point [°C]:</b>	> 100
<b>Flammability [°C]:</b>	not determinated
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	not determinated
<b>Density [g/ml]:</b>	not determinated
<b>Density at [°C]:</b>	
<b>Bulk density [kg/m³]:</b>	not applicable
<b>Solubility in water:</b>	partially miscible
<b>Partition coefficient [n-octanol/water]:</b>	not applicable
<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 determinated
<b>Autoignition temperature [°C]:</b>	not applicable
<b>Decomposition temperature:</b>	not applicable

**10 Stability and reactivity**

<b>Hazardous reactions:</b>	No hazardous reactions known.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products known.

**11 Toxicological information**

<b>Acute oral toxicity:</b>	not determinated
<b>Acute dermal toxicity:</b>	not determinated
<b>Acute inhalational toxicity:</b>	not determinated
<b>Irritant effect on eye:</b>	not determinated
<b>Irritant effect on skin:</b>	not determinated
<b>Sensitization:</b>	not determinated
<b>Subacute toxicity:</b>	not determinated
<b>Chronic toxicity:</b>	not determinated
<b>Mutagenicity:</b>	not determinated
<b>Reproduction toxicity:</b>	not determinated
<b>Carcinogenicity:</b>	not determinated
<b>Experiences made in practice:</b>	none
<b>General remarks:</b>	No classification on the basis of the calculation procedure of the preparation directive.



### 12 Ecological information

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

### 13 Disposal considerations

<b>Product:</b>	For recycling, consult manufacturer.
<b>Contaminated packaging:</b>	Uncontaminated packaging may be reused.
<b>Waste no. (recommended):</b>	070799

### 14 Transport information

<b>Classification according to ADR:</b>	NO DANGEROUS GOODS
- <b>Classification Code:</b>	
- <b>Label:</b>	
- <b>ADR LQ</b>	
- <b>ADR 1.1.3.6 (8.6):</b>	Transport category (tunnel restriction code): -
<b>Classification according to IMDG:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
- <b>EMS:</b>	
- <b>Label:</b>	
- <b>IMDG Limited Quantities:</b>	
<b>Classification according to IATA:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
- <b>Label:</b>	

### 15 Regulatory information

<b>Exposure scenario:</b>	not applicable
<b>Chemical safety report:</b>	not applicable
<b>Labelling:</b>	The product does not require a hazard warning label in accordance with EC-directives.
<b>Hazard symbols:</b>	none
<b>R-phrases:</b>	none
<b>S-phrases:</b>	none
<b>Special labelling:</b>	Safety data sheet available for professional user on request.
<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.
<b>TRANSPORT-REGULATIONS:</b>	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).
<b>NATIONAL REGULATIONS</b>	EH40/2005 Workplace exposure limits with amendments October 2007.

**16 Other informations**

**Observe employment restrictions for people:**

no

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

ca. 19%

**Customs Tariff:**

not determinated