



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

### TransOptic

Article number: 20-3400-080

Use:	See product designation
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: <a href="http://www.buehler-met.de/en/">www.buehler-met.de/en/</a> E-mail: <a href="mailto:sales@buehler.co.uk">sales@buehler.co.uk</a>
Emergency phone:	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
Responsible:	Schroeder@chemiebuero.de

## 2 Hazards identification

Physico-chemical hazards:	No particular hazards known.
Human health dangers:	No particular hazards known.
Other hazards:	none
Hazard symbols:	none
R-phrases:	none

## 3 Composition / Information on ingredients

Comment on component parts:	No dangerous components. Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
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## 4 First aid measures

General information:	none
Inhalation:	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
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:	not applicable
Advice to doctor:	Treat symptomatically.

## 5 Fire-fighting measures

Suitable extinguishing media:	Water spray jet. Carbon dioxide. Foam. Dry powder.
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 and contaminated firefighting water must be disposed of in accordance with the local regulations.

## 6 Accidental release measures

<b>Personal precautions:</b>	Avoid dust formation. Ensure adequate ventilation.
<b>Environmental precautions:</b>	not applicable
<b>Methods for cleaning up:</b>	Take up mechanically. Avoid raising dust. Dispose of absorbed material in accordance within the regulations.

## 7 Handling and storage

<b>Advice on safe handling:</b>	Avoid the formation and deposition of dust.
<b>Advice on protection against fire and explosion:</b>	No special measures necessary.
<b>Requirements for storage rooms and vessels:</b>	Keep only in original container.
<b>Advice on storage compatibility:</b>	No special measures necessary.
<b>Further information on storage conditions:</b>	Store in a dry place.

## 8 Exposure controls / personal protection

<b>Additional advice on system design:</b>	Ensure adequate ventilation on workstation.
<b>Ingredients with occupational exposure limits to be monitored: (GB)</b>	not applicable
<b>Respiratory protection:</b>	not applicable
<b>Hand protection:</b>	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Eye protection:</b>	Safety glasses.
<b>Skin protection:</b>	not applicable
<b>General protective measures:</b>	Avoid contact with eyes and skin.
<b>Hygiene measures:</b>	Wash hands before breaks and after work. Use barrier skin cream.
<b>Delimitation and monitoring of the environmental exposition:</b>	not determined

## 9 Physical and chemical properties

<b>Form:</b>	pellets
<b>Color:</b>	not determined
<b>Odor:</b>	characteristic
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	not determined
<b>Flash point [°C]:</b>	not applicable
<b>Flammability [°C]:</b>	not determined
<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 determined
<b>Density [g/ml]:</b>	1,02 (20°C / 68,0°F)
<b>Bulk density [kg/m³]:</b>	not determined
<b>Solubility in water:</b>	insoluble
<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 determined
<b>Autoignition temperature [°C]:</b>	not determined
<b>Decomposition temperature:</b>	not determined

**10 Stability and reactivity**

**Hazardous reactions:** No hazardous reactions known.  
**Hazardous decomposition products:** No hazardous decomposition products known.

**11 Toxicological information**

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

**12 Ecological information**

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

**13 Disposal considerations**

**Product:** Coordinate disposal with the authorities if necessary.  
**Contaminated packaging:** Uncontaminated packaging may be taken for recycling.  
**Waste no. (recommended):** 070213

**14 Transport information**

**Classification according to ADR:** NO DANGEROUS GOODS  
**Classification according to IMDG:** NOT CLASSIFIED AS "DANGEROUS GOODS"  
**Classification according to IATA:** NOT CLASSIFIED AS "DANGEROUS GOODS"

**15 Regulatory information**

<b>Exposure scenario:</b>	not determined
<b>Chemical safety report:</b>	not determined
<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>	none
<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**

<b>Observe employment restrictions for people:</b>	no
<b>VOC (1999/13/CE):</b>	0%

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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