




1 Identification of the substance / preparation and of the company

VariDur Liquid

Article number: 111029 / 111033

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: 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:	Schroeder@chemiebuero.de

2 Hazards identification

Physico-chemical hazards:	See chapter 10.
Other hazards:	none
Hazard symbols:	 Irritant
R-phrases:	R 36/37/38: Irritating to eyes, respiratory system and skin. R 43: May cause sensitisation by skin contact. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 Composition / Information on ingredients

Range [%]	Substance
50 - < 100	Tetrahydrofurfuryl-2-methacrylate
	CAS: 2455-24-5, EINECS/ELINCS: 219-529-5 EU-INDEX: ECB-Nr.:
	GHS/CLP: - EEC: Xi, R36/37/38
20 - < 40	Methacrylic acid, monoester with Propan-1,2-diole
	CAS: 27813-02-1, EINECS/ELINCS: 248-666-3 EU-INDEX: 607-125-00-5 ECB-Nr.:
	GHS/CLP: - EEC: Xi, R36-43
2,5 - < 10	1,6-Hexanediyl bismethacrylate
	CAS: 6606-59-3, EINECS/ELINCS: 229-551-7 EU-INDEX: ECB-Nr.:
	GHS/CLP: - EEC: Xi-N, R36/37/38-51/53
0,1 - < 1	N,N-dimethyl-p-toluidine
	CAS: 99-97-8, EINECS/ELINCS: 202-805-4 EU-INDEX: 612-056-00-9 ECB-Nr.:
	GHS/CLP: Acute Tox. 3, STOT RE 2, Aquatic Chronic 3, H331, H311, H301, H373, H412 EEC: T, R23/24/25-33-52/53

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

General information:	Change soaked clothing.
Inhalation:	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact:	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion:	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.
Advice to doctor:	Treat symptomatically.

5 Fire-fighting measures

Suitable extinguishing media:	Foam. Dry powder. Water spray jet. Carbon dioxide.
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 within the local regulations.

6 Accidental release measures

Personal precautions:	Ensure adequate ventilation. 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. Use only in well-ventilated areas.
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:	Do not store together with oxidizing agents.
Further information on storage conditions:	Keep container tightly closed. Keep container in a well-ventilated place.

8 Exposure controls / personal protection

Additional advice on system design:	Ensure adequate ventilation on workstation.
Ingredients with occupational exposure limits to be monitored: (GB)	not applicable
Respiratory protection:	not applicable
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:	not applicable
General protective measures:	Avoid contact with eyes and 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. Use barrier skin cream.
Delimitation and monitoring of the environmental exposition:	not determined

9 Physical and chemical properties

Form:	liquid
Color:	various
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	178
Flash point [°C]:	91
Flammability [°C]:	not determined
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Oxidizing properties:	no
Vapour pressure [kPa]:	0,01 (20°C)
Density [g/ml]:	1,033 (20°C / 68,0°F)
Bulk density [kg/m³]:	not applicable
Solubility in water:	virtually insoluble
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not applicable
Relative vapour density determined in air:	not applicable
Evaporation speed:	not applicable
Melting point [°C]:	not determined
Autoignition temperature [°C]:	not determined
Decomposition temperature:	not determined

10 Stability and reactivity

Hazardous reactions:	Reactions with peroxides and other radical components.
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:	Toxicological data are not available. The product was classified 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:	yes
General information:	No classification on the basis of the calculation procedure of the preparation directive.

13 Disposal considerations


Product:	Disposal in an incineration plant in accordance with the regulations of the local authorities. Coordinate disposal with the authorities if necessary.
Contaminated packaging:	Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.
Waste no. (recommended):	080409*

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

Exposure scenario:	not determined
Chemical safety report:	not determined
Labelling:	The product is classified and labelled in accordance within EC-directives.
Hazard symbols:	 Irritant
Contains:	Methacrylic acid, monoester with Propan-1,2-diole
R-phrases:	R 36/37/38: Irritating to eyes, respiratory system and skin. R 43: May cause sensitisation by skin contact. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases:	S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 24/25: Avoid contact with skin and eyes. S 35: This material and its container must be disposed of in a safe way. S 37: Wear suitable gloves.
Special labelling:	none
EEC-REGULATIONS:	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
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable

16 Other informations

R-phrases (Chapter 03):	R 36/37/38: Irritating to eyes, respiratory system and skin. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 36: Irritating to eyes. R 43: May cause sensitisation by skin contact. R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R 33: Danger of cumulative effects. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements (Chapter 03):	H331 Toxic if inhaled. H311 Toxic in contact with skin. H301 Toxic if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Observe employment restrictions for people:	yes
VOC (1999/13/CE):	not applicable

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