



**NEUMANN**  
**57076 Siegen**

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Doming PU 2016 M 12**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant uses

Adhesive-additive

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

<b>Company</b>	NEUMANN VAKUUM- UND DOSIERTECHNIK Weidenauer Str. 206 57076 Siegen / GERMANY Phone + 49 271 24 01 19 58 Homepage <a href="http://www.doming-maschine.de">www.doming-maschine.de</a> E-mail <a href="mailto:robneu2000@yahoo.de">robneu2000@yahoo.de</a>
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#### Address enquiries to

<b>Technical information</b>	<a href="mailto:robneu2000@yahoo.de">robneu2000@yahoo.de</a>
<b>Safety Data Sheet</b>	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a>

### 1.4 Emergency telephone number

<b>Advisory body</b>	+49 (0) 551-19240 (24h)
<b>Company</b>	+4915233952212

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

No classification.

### 2.2 Label elements

The product does not require a hazard warning label in accordance with GHS/CLP-directives.

<b>Hazard pictograms</b>	none
<b>Signal word</b>	none
<b>Hazard statements</b>	none
<b>Precautionary statements</b>	none

### 2.3 Other hazards

<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.



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### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

Range [%]	Substance
≤ 3	2-methylpentane-2,4-diol
	CAS: 107-41-5, EINECS/ELINCS: 203-489-0, EU-INDEX: 603-053-00-3, Reg-No.: 01-2119539582-35-XXXX
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315
≤ 2	Butane-1,4-diol
	CAS: 110-63-4, EINECS/ELINCS: 203-786-5
	GHS/CLP: Acute Tox. 4: H302

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Change soaked clothing.

##### Inhalation

Ensure supply of fresh air.

##### Skin contact

When in contact with the skin, clean with soap and water.

##### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

##### Ingestion

Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.  
Seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

##### Extinguishing media that must not be used

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues must be disposed of in accordance within the local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

#### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.



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### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No special measures necessary if used correctly.  
The product is combustible.  
Do not eat, drink or smoke when using this product.  
Use barrier skin cream.  
Wash hands before breaks and after work.  
Take off contaminated clothing and wash before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.  
Prevent penetration into the ground.  
Do not store with oxidizing or self-igniting materials.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.

**Storage class (TRGS 510)**

Storage class 10 (VCI)

### 7.3 Specific end use(s)

See product use, SECTION 1.2



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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (DE)

Substance
Butane-1,4-diol
CAS: 110-63-4, EINECS/ELINCS: 203-786-5
Exposure limit: 50 ppm, 200 mg/m <sup>3</sup> , AGS, 11
Factor: 4(II)
2-methylpentane-2,4-diol
CAS: 107-41-5, EINECS/ELINCS: 203-489-0, EU-INDEX: 603-053-00-3, Reg-No.: 01-2119539582-35-XXXX
Exposure limit: 10 ppm, 49 mg/m <sup>3</sup> , DFG
Factor: 20 ppm, 98 mg/m <sup>3</sup> , 15

#### DNEL

Substance
2-methylpentane-2,4-diol, CAS: 107-41-5
Industrial, dermal, Long-term - systemic effects: 2 mg/kg bw/day.
Industrial, inhalative, Acute - local effects: 98 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - local effects: 49 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 14 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 1 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
general population, inhalative, Acute - local effects: 49 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 25 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 3,5 mg/m <sup>3</sup> .

#### PNEC

Substance
2-methylpentane-2,4-diol, CAS: 107-41-5
oral (food), 100 mg/kg.
soil, 0,11 mg/kg.
sediment (seawater), 0,179 mg/kg.
sediment (freshwater), 1,79 mg/kg.
sewage treatment plants (STP), 20 mg/l.
seawater, 0,0429 mg/l.
freshwater, 0,429 mg/l.



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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. 0,4 mm; butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Color</b>	colourless
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not determined
<b>pH-value</b>	not determined
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	> 200
<b>Flash point [°C]</b>	> 150
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	1,05
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	250 mPas
<b>Relative vapour density determined in air</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.



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## 10.2 Chemical stability

The product is stable under standard conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known.

## 10.4 Conditions to avoid

See SECTION 7.2.

## 10.5 Incompatible materials

Oxidizing agent

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Substance
Butane-1,4-diol, CAS: 110-63-4
LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
LD50, oral, Rat: 1525 mg/kg (RTECS).
LC50, inhalative, Rat: > 5,1 mg/l (4 h) (OECD 403).
2-methylpentane-2,4-diol, CAS: 107-41-5
LD50, dermal, Rabbit: 13 000 mg/kg.
LD50, oral, Rat: 4000 mg/kg.

<b>Serious eye damage/irritation</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitisation</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity — repeated exposure</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Reproduction toxicity</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Toxicological data of complete product are not available. Based on available data, the classification criteria are not met.
<b>General remarks</b>	



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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Butane-1,4-diol, CAS: 110-63-4
LC50, (96h), <i>Leuciscus idus</i> : > 10000 mg/l (DIN 38412).
EC50, (48h), <i>Daphnia magna</i> : 813 mg/l (OECD 211).
IC50, (72h), <i>Desmodesmus subspicatus</i> : > 1000 mg/l (IUCLID).
2-methylpentane-2,4-diol, CAS: 107-41-5
LC50, fish: > 100 mg/l.
EC50, <i>Daphnia magna</i> : > 100 mg/l.
IC50, Bacteria: > 100 mg/l.

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the disposal contractor/authorities if necessary.

#### Waste no. (recommended)

080410

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

#### Waste no. (recommended)

150102



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#### SECTION 14: Transport information

##### 14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

##### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable





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**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

**NATIONAL REGULATIONS (DE):** Gefahrstoffverordnung - GefStoffV 2011; Wasch- und Reinigungsmittelgesetz - WRMG; Wasserhaushaltsgesetz - WHG; TRG 300; TRGS: 200, 615, 900, 905, Bekanntmachung 220 (TRGS220).

- Water hazard class 1, gem. VwVwS vom 27.07.2005

- Decree for case of interference, observe limits no

- Class. according to TA-Luft 5.2.5.

- Storage class (TRGS 510) Storage class 10 (VCI)

- Observe employment restrictions for people no

- VOC (2010/75/CE) not applicable

- Other regulations TRGS 510: Storage of hazardous substances in non-stationary containers  
 UVV: Handling of adhesives (VBG 81).

**15.2 Chemical safety assessment**

For this product a chemical safety assessment has not been carried out.

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H302 Harmful if swallowed.



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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 TLV®/TWA = Threshold limit value – time-weighted average  
 TLV®/STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

**Classification procedure**

**Modified position**

none

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