

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form	: Substance
Trade name	: MOWITAL® G
Chemical name	: Polyvinylbutyral
CAS-No.	: 68648-78-2 or 63148-65-2
SDS Number	: 200006
Synonyms	: G 13, G 16, G 36
Product group	: Trade product

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category	: For industrial use only
Use of the substance/mixture	: Coating Printing ink Additive/binder for primer 3D Printing Varnish

**1.2.2. Uses advised against**

Restrictions on use	: Unknown
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**1.3. Details of the supplier of the safety data sheet**

Kuraray Europe GmbH  
Philipp-Reis-Str. 4  
D-65795 Hattersheim  
Germany  
Telephone: +49-69-305-85300  
Technical Contact: +49-69-305-13345  
E-mail: product-safety@kuraray.com

**1.4. Emergency telephone number**

Emergency number	: +44 20 35147487 or 0 800 680 0425 - Access code: 334674
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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to GB CLP (SI 2019:720 as amended)**

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements****Labelling according to GB CLP (SI 2019:720 as amended)**

No labelling applicable

**2.3. Other hazards**

This product does not contain substances at  $\geq 0.1\%$  that meet the PBT criteria of UK REACH regulation, annex XIII.  
This product does not contain substances at  $\geq 0.1\%$  that meet the vPvB criteria of UK REACH regulation, annex XIII.

The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP.

# MOWITAL® G

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : MOWITAL® G  
CAS-No. : 68648-78-2 or 63148-65-2

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
Polyvinyl butyral	CAS-No.: 68648-78-2; 63148-65-2	> 99	Not classified
Water (Impurity)	CAS-No.: 7732-18-5 EC-No.: 231-791-2	< 0.95	Not classified

#### 3.2. Mixtures

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a doctor if symptoms occur or persist.  
First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse eyes with water as a precaution. Do not rub the eye. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : Rinse mouth thoroughly with water. If the quantity swallowed is significant : Call a physician immediately or Poison centre.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water fog. Water spray. Dry powder. Foam. Carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

Fire hazard : Could burn but do not ignite readily.  
Hazardous decomposition products in case of fire : In the event of fire, harmful gases may be produced.

#### 5.3. Advice for firefighters

Firefighting instructions : Use ordinary fire-fighting measures, taking into account the hazards from other materials involved. Move containers away from the fire area if this can be done without risk.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment. Environmental officer must be informed of all releases.

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

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Store in the original container well sealed.

#### 7.3. Specific end use(s)

For industrial use only. 3D Printing. Additive/binder for primer. Varnish. coatings. Printing ink. Coating.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

No additional information available

##### 8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Follow standard monitoring procedures.

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection.:

Safety glasses (EN 166).

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing.

##### Hand protection:

Wear protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.12		EN ISO 374

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

#### 8.2.2.4. Thermal hazards

##### Thermal hazard protection:

Heatproof clothing.

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular solid
Colour	: Colourless
Odour	: Odourless
Odour threshold	: Not available
pH	: Not available
pH solution	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not applicable
Relative density	: Not available
Density	: Not available
Solubility	: Not available

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## Safety Data Sheet

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Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not available

### 9.2. Other information

VOC content	: < 0.1 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)

Water (7732-18-5)	
pH	7

Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
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Water (7732-18-5)	
pH	7

Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

MOWITAL® G (68648-78-2 or 63148-65-2)	
Viscosity, kinematic	Not applicable

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### Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

### 12.2. Persistence and degradability

#### MOWITAL® G (68648-78-2 or 63148-65-2)

Persistence and degradability	No data available.
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#### Polyvinyl butyral (68648-78-2; 63148-65-2)

Persistence and degradability	No data available.
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#### Water (7732-18-5)

Persistence and degradability	No data available.
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### 12.3. Bioaccumulative potential

#### MOWITAL® G (68648-78-2 or 63148-65-2)

Bioaccumulative potential	No data available.
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#### Water (7732-18-5)

Partition coefficient n-octanol/water (Log Pow)	-1.38
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### MOWITAL® G (68648-78-2 or 63148-65-2)

This product does not contain substances at  $\geq 0.1\%$  that meet the PBT criteria of UK REACH regulation, annex XIII

This product does not contain substances at  $\geq 0.1\%$  that meet the vPvB criteria of UK REACH regulation, annex XIII

### 12.6. Other adverse effects

Other adverse effects : No other adverse effects on the environment (e.g. ozone depletion, photochemical ozone formation potential, global warming potential) are expected from this constituent.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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## Safety Data Sheet

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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not regulated as dangerous goods	Not regulated as dangerous goods	Not regulated as dangerous goods.	Not regulated as dangerous goods	Not regulated as dangerous goods
<b>Transport document description</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: False	Dangerous for the environment: False Marine pollutant: No	Dangerous for the environment: False	Dangerous for the environment: False	Dangerous for the environment: False
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 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

#### 15.1.1. EU-Regulations

##### UK REACH Annex XVII (Restriction List)

This substance is not listed on UK REACH Annex XVII (Restriction List).

##### UK REACH Annex XIV (Authorisation List)

This substance is not listed on UK REACH Annex XIV (Authorisation List).

##### UK REACH Candidate List (SVHC)

Not listed on the UK REACH Candidate List.

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## Safety Data Sheet

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### GB PIC regulation (Prior Informed Consent)

This substance is not listed on the GB PIC List.

### POP Regulation (Persistent Organic Pollutants)

This substance is not listed on the GB POP List.

### Ozone Regulation (S.I. No. 168 of 2015)

This substance is not listed on the GB Ozone Depletion List.

### Control of Poisons and Explosives Precursors Act

This substance is not listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations.

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations.

This substance is not listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations.

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations.

### Drug Precursors Regulation (273/2004)

This substance is not listed on the GB Drug Precursors List.

#### 15.1.2. Other Information

VOC content : < 0.1 %

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Data sources : Supplier's safety documents. Source: European Chemicals Agency, <http://echa.europa.eu/>.

Safety Data Sheet (SDS), UK

Disclaimer: The accuracy of this information is not guaranteed. The information is believed to be accurate. This information must be used to make an independent determination of the measures necessary to ensure the safety of workers and the environment. Kuraray cannot anticipate all conditions under which this information and the product or other manufacturer's products may be used in conjunction with their product. It is the responsibility of the user to ensure safe conditions when handling, storing and disposing of the product and to accept liability for loss, injury, damage or expense due to improper use. The information in this data sheet is based on current knowledge.